



Virginia Tech

Employment Opportunity Bulletin

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Virginia Tech has a strong commitment to the principles of diversity, inclusion, and to maintaining a work and learning environment that is free of all forms of discrimination. As a result this institution does not tolerate discrimination or harassment on the basis of age, color, disability, gender, national origin, political affiliation, race, religion, sexual orientation, or veteran status. Anyone having questions concerning discrimination should contact the Office of Equal Opportunity: (540) 231-7500.



VirginiaTech

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Founded in 1872 as a land-grant college named Virginia Agricultural and Mechanical College, Virginia Tech is now a comprehensive, innovative research university with the largest full-time student population in Virginia, more than 100 campus buildings, a 2,600-acre main campus, and a 1,700-acre agriculture research farm. Through a combination of its three missions of instruction, research, and public service, Virginia Tech continually strives to accomplish the charge of its motto: Ut Prosim (That I May Serve).

Virginia Tech Core Values

- Freedom of Inquiry
- Mutual Respect
- Lifelong Learning
- A Commitment to Diverse and Inclusive Communities
- Ut Prosim (That I May Serve)
- Personal and Institutional Integrity
- A Culture of Continuous Improvement

Invent the Future[™] with Virginia Tech

Virginia Tech has an outstanding record of growth and stability and offers a wide variety of exciting and challenging employment opportunities. We are an inclusive community with a vibrant arts scene, state of the art conference facilities, world class faculty, highly motivated students and staff, nationally competitive athletics, premier economic development programs, award-winning on-campus dining programs, and a nationally recognized public transit system. Employees enjoy a competitive benefits package and institutional policies that emphasize work/life balance. With a record of innovative research and academic excellence, Virginia Tech consistently ranks among the top national public universities.

The main campus is located in Blacksburg, a vigorous stimulating community nestled on a plateau between the Blue Ridge and Allegheny mountains. Because of the town's award-winning services, reasonable cost of living, safety, moderate climate, and abundant leisure activities, Blacksburg is consistently ranked among the country's best places to live and has a nationwide reputation as a well-managed, stable, and forward-looking community.

Please consider joining our community of diverse and talented employees as we Invent the Future[™].

Invent the Future

VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY
An equal opportunity, affirmative action institution

Employee Category: *Administrative and Professional Faculty*

Working Title

**Posting
Number**

Associate Director for Research, Institute for Critical Technology and Applied Science 070708

Position Responsibilities:

The Institute for Critical Technology and Applied Science (ICTAS) at Virginia Tech is looking for an individual with broad interdisciplinary skills, and a demonstrated record of leadership in research and scholarship. Established in 2002, the Institute is an innovative organizational and financial structure that fosters collaboration and substantial growth in sponsored research in existing and emerging engineering and scientific fields. Its vision is to become among the top-rated global institutes in transformative, sustainable technologies geared toward societal needs.

The current focus areas of research identified by the Institute for growth and investment are either subsets or at the intersection of nanotechnology, molecular and cellular biology, technologies for sustainable energy and water supply, human cognition and communication. Examples of research projects include targeted delivery of nanomedicine, non-invasive sensing and diagnosis, macromolecules based energy systems, smart vehicles, human behavior analysis, cognitive radio frequency networks, portable smart laboratory for human-wildlife interactions, and safety and health at the interface between humans and hazard

Associate Director, 4-H Youth Development (State Program Leader) 070913

Position Responsibilities:

Provide overall program development and evaluation leadership to ensure that programs demonstrate valued outcomes, are supported with relevant curricula, and that outcomes are reported to stakeholders, faculty and the media. Serve as the spokesperson for Extension's 4-H programs in addressing key issues facing youth and families in the Commonwealth. Collaborate with the Director of Extension to ensure adequate resources are secured, allocated and managed to appropriately support high priority 4-H youth programs. Provide leadership to specialists, agents, and volunteers in all 4-H youth programming. Encourage interdisciplinary and multi-state educational initiatives that target youth programs. In conjunction with District Directors, establish staffing patterns and priorities for campus and field positions and provide support for recruiting, screening, and interviewing candidates. Perform administrative functions related to the management of state 4-H faculty, staff, and budgets including the appointment of new specialists and staff. Provide leadership and encouragement for effective civil rights and diversity efforts, ensuring inclusion and involvement of diverse individuals

Employee Category: *Administrative and Professional Faculty*

Working Title	Posting Number
Associate Vice President, Human Resources	070963

Position Responsibilities:

Virginia Tech seeks an accomplished professional to be a key member of the leadership team. Reporting to the Vice President for Administrative Services, the selected candidate will be responsible for providing creative vision, leadership, and management to transform the human resource programs and policies utilizing the autonomy recently granted through the Commonwealth of Virginia Higher Education Restructuring Act. Human Resources employs a staff of fifty-four and is supported by an annual budget of approximately \$3.6 million.

Virginia Tech is one of the Commonwealth's land-grant institutions located 38 miles southwest of Roanoke, in the New River Valley. Through a combination of its three missions of discovery, learning, and engagement, Virginia Tech continually strives to accomplish the charge of its motto: Ut Prosim (That I May Serve). While offering a comprehensive liberal arts education, the university's programs in agriculture, life sciences, business, and engineering continue to be nationally ranked.

The university has over 28,000 students, 1,300 full-time instructional faculty, 550 research faculty, 750 administrative and professional faculty, and 3,700 staff. For

Director of Development for the College of Natural Resources	070973
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Position Responsibilities:

The Director of Development is responsible for the comprehensive development program on behalf of the College. The Director of Development, working closely with the dean, senior administration, and faculty, will be responsible for the planning and implementation of the overall fundraising efforts in support of current operations, endowment, and other capital purposes from all private sources. He/She will fulfill these duties under the direction of and in close cooperation with the university's central development office.

RESPONSIBILITIES

Provide executive leadership for oversight and coordination to the College's Development function. Lead officer who provides fundraising direction for the College's priorities in the Campaign for Virginia Tech: "Invent the Future."

Serve as primary staff for rated individual prospects of \$25,000 or more, developing and implementing cultivation and solicitation strategies.

Develop comprehensive strategic and operating plans to outline goals and strategies for private support to the College.

Travel extensively both regionally and nationally to identify, cultivate, solicit, and steward donors to the College. More than 50 percent of t

Employee Category: *Administrative and Professional Faculty*

Working Title	Posting Number
Associate Vice President for Facilities	071006

Position Responsibilities:

Virginia Polytechnic Institute and State University (Virginia Tech) seeks an accomplished and strategic professional to be a key member of the leadership team. The selected candidate will be responsible for providing creative vision, leadership, and management for: facilities, which includes capital design, campus renovation, parking and transportation services (including airport) construction, physical plant and utilities. The position reports to the Vice President for Administrative Services, with an operating budget of \$75M, a capital/renovation budget \$125M and approximately 600 staff.

Overseeing the magnificent physical campus which spans 2600 acres, the associate vice president will be responsible for the university's capital outlay program. The ongoing capital program includes 33 projects currently underway with a total project value of about \$553 million and normal annual expenses of \$50 to \$80 million. The university's six-year capital plan for 2006-2012 includes about \$1 billion of capital improvements with a focus on sustainability for all new and existing infrastructure.

Virginia Tech is one of the Commonwealth's land-grant institutions located 38 miles south

Electronic Portfolio Project Manager	070979
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Position Responsibilities:

- Identify and collaboratively support faculty and administrative leaders to guide the growth of the project
- Develop and lead faculty development seminars
- Refine and advance the functionality of the ePortfolio software and related content management systems
- Provide guidance to faculty and departments for applications of ePortfolio that include assessment, student learning, advising, and student career development
- Collaborate with the Office of Academic Assessment regarding faculty applications of ePortfolio for program assessment and accreditation
- Manage translation and development of faculty and departmental portfolio requirements
- Support ePortfolio planning, testing, and programmatic launch efforts
- Coordinate user requests to determine implementation needs, providing guidance to Learning Technologies programming staff
- Assist in the development of ePortfolio adoption campaigns within departments and campus-wide
- Engage with the emerging nation-wide field of ePortfolio and related discussions of learning theory, new technology, and assessment; contributing to the software's overall improvement; and working with others to insure that Virginia Tech- specific

Employee Category: *Administrative and Professional Faculty*

Working Title

**Posting
Number**

Extension Agent, Agriculture and Natural Resources

071024

Position Responsibilities:

An Extension Agent, Agriculture and Natural Resources, provides leadership in determining, implementing, and evaluating educational programs which are designed to solve social, economic, and environmental problems in agriculture and natural resources. The agent is an educator, an information provider, a needs assessor, a problem solving resource for clientele, and networks with the agricultural industry, specialists, Extension agents and agency representatives.

Provides current research-based information to citizens by employing various delivery methods targeted to diverse audiences; works closely with producers, agri-business, community leaders, Extension Leadership Councils and appropriate agents and specialists to identify and prioritize issues, problems and opportunities; uses farm and business visits as a means to remain knowledgeable of specific local needs and problems related to agricultural production, marketing, and environmental protection; fosters communication among agricultural producers, marketers, processors and consumers; maintains a high level of proficiency in subject matter field by participating in in-service training and professional activities; works clo

Extension Agent, 4-H Youth Development

071025

Position Responsibilities:

4-H Youth Development Agent is a professional educator who provides leadership to the local 4-H program and manages its day-to-day operation. 4-H is a community of young people learning leadership, citizenship, and life skills. The mission of 4-H is to develop youth and adults working with those youth, to realize their full potential?becoming effective, contributing citizens through participation in research-based, non-formal, hands-on educational experiences.

Responsibilities: Develops and delivers objective and research-based educational programs to meet the needs of diverse audiences, specifies program goals and objectives, and identifies resources needed; provides leadership for 4-H Youth Development programs that meet the needs of youth regardless of race, color, national origin, gender, age, disability, or religion; identifies, recruits, trains, supports, and manages volunteers to implement and carry out the 4-H educational programming in the unit; determines unit program needs by monitoring trends and issues, and conducting unit assessments involving the unit Extension Leadership Council (ELC) and other leadership committees; networks and builds coalitions with other

Employee Category: *Instructional/Research Faculty*

Working Title	Posting Number
Curriculum Coordinator/Instructor	070322

Position Responsibilities:

- Serve as the Curriculum Coordinator and assume responsibility as atelierista (teacher/curator of the studio) at the Child Development Center for Learning and Research with major responsibility to coordinate the documentation of classroom process and support teachers to cultivate a teaching-learning environment for children and adults which encourages experimentation and innovative practices
- Support and supervise the ongoing preparation and professional development of teachers, graduate, and undergraduate student interns in the Child Development Center for Learning and Research
- Teach undergraduate courses in child development and early childhood education
- Engage in research and community outreach activities; publish in scholarly journals; and participate actively in professional organizations
- Serve on departmental and college committees

Assistant Professor, In-stream Processes and Interactions	070794
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Position Responsibilities:

The Department of Biological Systems Engineering (BSE) invites applications for a tenure-track faculty position at the assistant professor level in In-stream Processes and Interactions. We are seeking a highly motivated scientist/engineer to evaluate the linkage of hydrology, hydraulics, and geomorphology with ecological integrity and human health in aquatic systems. This individual would advance our understanding of physical, chemical, and biological processes for improved restoration design and preservation of aquatic ecosystems, in conjunction with sound land-use planning. Highest priority will be given to applicants whose research interests include evaluating how the complexity and heterogeneity in physical stream structure affect surface water-groundwater interactions in channel, floodplain, and hyporheic environments and determining the dominant spatial and temporal environmental parameters and processes that influence nutrient, sediment, and pathogen fate and transport in surface and subsurface waters at field and watershed scales. Some additional potential research areas include impact of stream restoration activities on nutrient and bacteria fate and transport; riparian ve

Director, School of Public and International Affairs	070910
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Position Responsibilities:

- Directing the administrative functions of the School of Public and International Affairs, including planning and goal setting, budgeting, and employee supervision
- Be the principal spokesperson for the School on matters pertaining the goals and objectives of the School
- Develop and implement a fundraising and grants management plan for the School
- Participation in School, CAUS, and university meetings and planning sessions

Please see <http://www.spia.vt.edu> for a complete description of position responsibilities and the School.

Employee Category: *Instructional/Research Faculty*

Working Title

**Posting
Number**

Assistant Professor, Nutrient and Soil Management Specialist

070716

Position Responsibilities:

Virginia Tech is inviting applications for a 12-month, tenure-track faculty appointment (50% Research, 50% Extension) as Assistant/Associate Professor, Nutrient and Soil Management Specialist to be located at the Eastern Shore Agricultural Research and Extension Center (ESAREC). Eastern Virginia has coastal plain soil types that support production of diverse vegetable and agronomic crops. The incumbent is expected to develop a nationally and internationally recognized research program that addresses nutrient management issues for these cropping systems. Important concerns include research on fertilization, expansion of guidelines for application of nutrient sources such as poultry manure and sludge, and research on nutrient related waste management. Research should support development and validation of best management practices that maximize efficient nutrient utilization. Extension responsibilities will involve development of educational programs pertaining to the areas mentioned above. Communications and collaboration with University faculty on and off campus, county extension faculty, commodity representatives, government agencies, growers, environmental groups, and agribusiness

Assistant and Associate/Full Professor, Center for Public Administration and Policy

070980

Position Responsibilities:

- Teaching graduate coursework in the Center for Public Administration and Policy
- Development and maintenance of a nationally or internationally recognized research program in Public Administration and Public Affairs
- Participation in departmental, college, and university committees
- Advising and mentoring students
- Participation in outreach activities, such as continuing education workshops
- Obtaining sponsored funding in support of research program

Please see <http://www.spia.vt.edu> and <http://www.cpap.vt.edu> for a complete description of position responsibilities and the department.

Assistant Professor, Stormwater Management

070767

Position Responsibilities:

The Department of Biological Systems Engineering (BSE) at Virginia Tech invites applications for a tenure-track faculty position in the area of Stormwater Management at the assistant professor level. The incumbent will be expected to secure competitive grants, establish a strong publication record, and support scholarly programs in both research and extension. We seek a highly motivated scientist/engineer to develop a research program that advances the underlying engineering, science, policy, and methods to effectively control stormwater and to investigate downstream water quality, water quantity, channel stability, and biological integrity impacts caused by stormwater discharges. The candidate will be expected to seek external funds and develop and implement a nationally recognized research/extension program that addresses innovative approaches for stormwater management and assists municipalities and others charged with developing and implementing stormwater management plans in compliance with the Clean Water Act. This position will be located at the Occoquan Watershed Monitoring Laboratory in Manassas, VA (<http://www.owml.vt.edu>). The incumbent will be part of the Land and

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Employee Category: *Instructional/Research Faculty*

Working Title

**Posting
Number**

Assistant Professor, GIA/ASPECT

071001

Position Responsibilities:

- Teaching undergraduate and graduate coursework in globalization and governance
- Development and maintenance of a nationally or internationally recognized research program
- Participation in departmental, college, and university committees
- Advising and mentoring students
- Obtaining sponsored funding in support of research program

Please see [http:// www.spia.vt.edu](http://www.spia.vt.edu) for a complete description of position responsibilities and the department.

Employee Category: *Special Research Faculty*

Working Title

**Posting
Number**

Postdoctoral Associate, Biological Sciences

070074

Position Responsibilities:

Work in collaboration with Professor John Tyson and Research Scientist Katherine Chen on mathematical models of the molecular pathways that regulate exit from mitosis in budding yeast cells. The postdoc's primary responsibility will be to construct, analyze, simulate and optimize models of the mitotic exit network, based on reaction rate equations (nonlinear ODES). Success will require close attention to the experimental literature on cell physiology and molecular mechanisms, expertise in building realistic models using chemical rate equations, familiarity with nonlinear dynamical systems theory, and facility using software tools for simulation, bifurcation analysis, and parameter estimation. The postdoc will be expected to participate in lab meetings, to prepare project reports and manuscripts for publication in peer-reviewed journals, and to participate in grant proposal preparation and presentations for conferences.

Postdoctoral Associate, Chemistry

070387

Position Responsibilities:

The postdoctoral associate in this position will work as part of a research group interested in solar hydrogen production.

Responsibilities will include:

- Preparation, purification, and analysis of metal complexes applicable in light-to-energy conversion schemes.
- Preparation and assay of new supramolecular assemblies.
- Analysis of photochemical and photophysical properties of the assemblies.
- Prepare regular written progress reports.
- Submit manuscripts based on work to peer reviewed journals and present results at national conferences.
- Work with faculty supervisor and graduate students.
- Take the initiative in finding solutions to scientific problems that arise on a day-to-day research.
- Pursue research goals with routine consultation, but limited supervision.
- Supervise/train undergraduate or graduate students in laboratory procedures.
- Assist in project design, execution, and interpretation of research projects to gain practical experience in the field.
- Prepare professional presentations, professional reports, and publications.
- Engage in collaborative work with peers to achieve research objectives.

Employee Category: *Special Research Faculty*

Working Title

**Posting
Number**

Postdoctoral Associate in Space Sciences, Electrical & Computer
Engineering

070422

Position Responsibilities:

The Space Science Research Group seeks a postdoctoral associate to undertake research on geomagnetic storm time phenomena, including global sawtooth oscillations. The research will include the analysis of global ground based and space based data sets as well as the application of global MHD computer simulations to investigate storm time phenomena.

Other responsibilities include:

- Serve as a co-PI
- Pursue research goals with routine consultation, but limited supervision
- Supervise/train undergraduate or graduate students in laboratory
- Assist in project design, execution, and interpretation of research projects to gain practical experience in the field
- Prepare professional presentations, professional reports, and publications
- Engage in collaborative work with peers to achieve research objectives

Please see <http://www.ece.vt.edu> for a complete description of position responsibilities and the department

Research Assistant Professor, Chemistry

070594

Position Responsibilities:

The person hired into this position will work with a research group as an investigator and provide administrative and leadership support to a major multi-disciplinary and multi-university research program as its Assistant Director. He/She will have independence to seek sponsored funding to conduct basic chemical research and will be expected to focus on collaborative efforts. He/She will teach a course in the Chemistry Department, annually.

Responsibilities will include:

- Contribute significantly to project design, execution, and interpretation of research
- Contribute to project management by preparation of reports and presentations and arranging research reviews and technical workshops
- Identify appropriate colleagues for collaborations and seek funding for joint projects
- Supervise/train collaborating graduate students and postdocs
- Pursue independent research in their area of expertise, under general supervision
- Organize and conduct the assigned course

Employee Category: *Special Research Faculty*

Working Title

**Posting
Number**

Project Manager, Institute for Cultural Policy & Practice

070588

Position Responsibilities:

The Institute for Cultural Policy and Practice (ICPP) with the College of Liberal Arts and Human Sciences at Virginia Tech is seeking to hire a Project Manager to administer its numerous programs. This position encompasses four areas including: program administration, program design, public relations and staff management.

Responsibilities of the Project Manager include:

- Manages communication and planning strategy among ICPP staff, national advisory board, guest speakers, consultants and sub-contractors.
- Coordinates the program design and delivery efforts of ICPP staff, numerous guest speakers, consultants and major sub-contractors on existing ICPP projects nationally.
- Serves as ICPP's chief liaison with the Office of Sponsored Programs and program sponsors for pre-award and post-award processes, including contract negotiation.
- Participates in the design of, and resource development for new ICPP projects and programs.
- Drafts ICPP program proposals and report narratives.
- Designs and disseminates all program evaluation instruments; analyzes findings and based on this analysis makes recommendations for programmatic improvement.
- Designs and develops Institu

Research Associate, Applications Developer (VTTI)

070609

Position Responsibilities:

Independently works writing data analysis applications for diverse research programs. Work with researchers to develop technology deployment strategies. Design, write, and debug generic data analysis tools for general use. Assist in system deployments and the construction of data collection systems as needed. Performs work that involves developing innovative and creative solutions to complex engineering challenges with the goal of advancing the field of naturalistic data mining. Works to build unique software systems including, but not limited to, code integration, post collection digital video and data synching, and MS SQL database design. Iteratively acts in concert with the research team and sponsors to define project goals and technical specifications; to create/refine project plans and milestones; and to integrate these goals, specification and timeline to achieve the overall objective. Duties include one or more of the following: Equipment design and development, test materials, trial and error problem solving, preparation of specification, process study, research investigations, and report preparation. Specifically responsible for developing and maintaining data mining

Research Associate/Postdoctoral Associate, Biological Sciences

070691

Position Responsibilities:

A NIH-supported postdoctoral and/or research associate position is available to study bacterial signal transduction. Work as part of a team conducting research on understanding the mechanisms of bacterial type IV mediated functions; design and execute experiments involving biochemistry, microbial genetics, molecular biology and various microscopy; provide training for graduate and undergraduate students; analyze data using various computer software and bioinformatics tools; prepare project reports and manuscripts for publication in peer-reviewed scientific journals; develop and participate in grant proposal preparation and scientific presentations for conferences.

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Employee Category: *Special Research Faculty*

Working Title	Posting Number
Postdoctoral Associate, Non-Seismic Geophysics	070825

Position Responsibilities:

PostDoctoral Fellowship Opportunity in Electromagnetic Methods for Hydrocarbon Reservoir Characterization, Department of Geosciences, Virginia Tech in cooperation with BP America, Non-Seismic Geophysics Group Outstanding early-career scientists are invited to apply for a competitive PostDoctoral Fellowship to engage in high-impact research on electromagnetic methods for hydrocarbon reservoir characterization. This industry-supported appointment is designed to stimulate innovative thinking in the application, theory and interpretation of controlled source electromagnetics (CSEM) with a dual emphasis on computation and integrated geophysical analysis. The successful candidate will be expected to leverage the collective resources of Virginia Tech and the Non-Seismic Geophysics Group at BP America, Houston TX, as part of the overall goal of exploring the value of CSEM technology in the reservoir analyst's toolkit. Within these overall guidelines, specific research topics and activities will be defined once a suitable candidate is found.

Research Associate, Interpretative Soil Scientist	070816
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Position Responsibilities:

The person hired for this position will have the primary responsibility for activities required to carry out research and training obligations associated with the continuing grant from the Virginia Department of Health and Human Services, Soil Science Assistance. The position serves the needs and requirement of this grant in the Southwestern Geographic Region of Virginia.

The Interpretative Soil Scientist will provide assistance and expertise in field soil science, soil interpretation, training, and evaluation to the Virginia Department of Health (VDH) and Environmental Health Specialists (EHS) in Virginia's Southwest District. The soil scientist will assist with the evaluation of building sites for sewage disposal systems and the evaluation of problem areas for sewage disposal systems, septage disposal sites, and related land uses. In this capacity the soil scientist will be called upon to adjudicate site-specific requests for soil related variances to the state regulations. The soil scientist will work in cooperation with three other interpretative soil scientists by providing several week-long soil training sessions each year throughout the state for EHS. The soil scientist

Employee Category: *Special Research Faculty*

Working Title

**Posting
Number**

Project Associate (Project Coordinator, Fairfax Mentors Project),
Fairfax County

061043

Position Responsibilities:

Virginia Cooperative Extension is seeking applications for a Project Associate. This is a restricted, Special Research Faculty position.

Performs highly skilled work with at risk youth and their families; directs and guides the work of the staff connected to this grant and volunteer mentors; recruit and train adults to participate in the program as mentors; identify and orient youth and their families regarding policies and procedures of the program; provide ongoing orientation to other human service agencies and school personnel about the program; responsible for overall coordination, monitoring, evaluation, and management of the program to include all issues regarding mentors and mentees and families; identifies and engages community partners to leverage resources for the program; coordinates facility screening and transportation for events; tracks program expenditures and completes all administrative reports

Responsibilities:

-Project Supervision: Recruit, train and supervise staff connected with the Fairfax Mentors Project. Employee will facilitate the completion of all necessary application paper work for both mentor and mentee; review and approve all mentoring mat

Research Associate- Organic/Natural Product Chemistry

070925

Position Responsibilities:

The primary responsibility will be to provide support to a Research Chemist conducting research on the establishment of an affordable synthetic pathway to produce (Z,Z)-3,13-octadecadienol acetate (ODDA) with >99.5% purity. This compound was identified as the major sex pheromone component of the dogwood borer moth. (E,Z)-3,13-ODDA is an isomer of the major dogwood borer pheromone component that is formed as a by-product during the synthesis of (Z,Z)-3,13-ODDA and, when present as a contaminant at very low concentrations, is a potent inhibitor of the response of male dogwood borer to its sex pheromone.

At the full performance level of the position, the incumbent will perform a wide range of duties designed to solve complex chemical research problems. These include but may not be limited to the development of a new synthetic pathway for (Z,Z)-3,13-ODDA, performing micro-chemical reactions and other tasks as required during the chemical synthesis, reviewing scientific literature to select methods and procedures appropriate to the research objectives, plan and implement experiments using prescribed approaches, operate and maintain moderately complex laboratory instruments, maintain of

Employee Category: *Special Research Faculty*

Working Title

**Posting
Number**

Sr Research Associate, Electrical & Computer Engineering

070959

Position Responsibilities:

A Senior Research Associate position is available within the Bradley Department of Electrical and Computer Engineering. The duties and responsibilities include:

- Conduct research in algorithm design and optimization for wireless networks
- Participate in proposal development and prepare reports to funding agencies
- Serve as research personnel on research grants and contracts and collaborate with other faculty investigators on joint projects
- Author and/or co-author high quality journal and conference papers
- Partial responsibility for supervising graduate and undergraduate students' projects

Please see <http://www.ece.vt.edu> for a complete description of the department.

Assistive Technology Coordinator, School of Education

071012

Position Responsibilities:

The position emphasizes the connection between research and practice through collaboration and outreach in the region. Job responsibilities include public awareness and coordination and delivery of training; facilitation of state Assistive Technology (AT) reutilization and loan efforts; dissemination of AT information & resources; demonstration of AT devices in educational, community and work settings; management fiscal and progress reporting; and collaboration with the Virginia Department of Rehabilitation VATS staff, community services and VT. The job demands strong problem solving and collaboration skills; effective written, oral and interpersonal communication skills; and sensitivity to the unique needs of individuals with disabilities.

Postdoctoral Associate, Nutritional Immunology & Molecular Nutrition
Lab

061100

Position Responsibilities:

The incumbent will plan, organize and evaluate the laboratory workflow, set-up new molecular assays, and generate results within the Laboratory of Nutritional Immunology & Molecular Nutrition. Assist in identifying the laboratory's research priorities and implementing action plans based on 1) deadlines for grant proposals and needs for preliminary data, 2) deadlines for progress and final reports due to the sponsoring agencies, and 3) overall publication goals of the laboratory. The incumbent will guarantee that results have been generated by the deadlines established on the basis of the laboratory's goals and funding needs. It will be an additional responsibility of the incumbent to review and evaluate pertinent scientific literature, assist the PI in writing project reports and manuscripts and supervising students and technical personnel working in the laboratory.

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Employee Category: *Special Research Faculty*

Working Title

**Posting
Number**

Research Assistant Professor - Engineering Science & Mechanics

060979

Position Responsibilities:

Develop vigorous externally-funded research programs, be involved in research management, publish papers and reports related to current and future programs. Assist in the installation of large-scale composite structures in the field. Participate in writing proposals to outside agencies. Make presentations of his/her original research and publish results in peer-reviewed high-impact scientific journals. Develop interdisciplinary research programs involving national and international collaborations. Teach courses at both the undergraduate and graduate levels in the general area of engineering mechanics and materials. Direct graduate theses and dissertations and serve on graduate committees as allowed by the departments' graduate programs and graduate school policy.

Please see [http:// www.esm.vt.edu](http://www.esm.vt.edu) for a complete description of position responsibilities.

Postdoctoral Associate, Chemistry

061209

Position Responsibilities:

The Chemistry Department within the College of Science invites applications for Postdoctoral Associates. Up to two positions available. The incumbents will work as part of a research group studying proton-conducting polymers and advanced polymeric materials. Positions may have an assigned focus of either; 1.) Investigating proton-conducting polymers using novel NMR spectroscopy and imaging methods or 2.) Probing polymer morphology and orientational order during shear and/or synthesis in other advanced polymeric materials using rheological NMR and other novel methods.

Responsibilities will include:

- Using commercial NMR instruments to collect data on proton-conducting polymers and advanced polymeric materials.
- Modification of NMR instrumentation / software to enable new experimental protocols for polymer analysis / characterization.
- Perform modeling of NMR spectra using mathematical techniques and software.
- Data analysis.
- Preparing regular written progress reports.
- Submitting manuscripts based on work to peer reviewed journals and presenting results at national conferences.
- Working with faculty supervisor and graduate students.
- Taking the initiative in finding

Employee Category: Special Research Faculty

Working Title

**Posting
Number**

Postdoctoral Associate-Engineering Science & Mechanics

061317

Position Responsibilities:

The postdoctoral associate will conduct research related to proton exchange fuel cell durability, performance, and design in cooperation with Professors S. Case, M. Ellis, and D. Dillard at Virginia Tech in Blacksburg, VA. Specifically, the postdoctoral associate will spend approximately 50% of his/her time helping to guide research and students cooperating on funded research projects examining mechanics, material properties, transport phenomena, performance, and durability of fuel cell components and systems. The work will include both experimental and analytical components and will involve collaborative efforts with graduate students funded on the projects. The other 50% of the postdoctoral associate's time will focus on assisting in the management of research projects, including interacting with sponsors, writing papers, reports, and proposals related to current and future programs. The postdoctoral associate will be responsible for assisting in the development of research goals for the program and updating of research direction given findings.

The postdoctoral associate will participate in writing proposals to outside agencies or entities that are planned for 2007,

Postdoctoral Associate, Fisheries and Wildlife Science

061365

Position Responsibilities:

The Department of Fisheries and Wildlife Sciences at Virginia Tech is accepting applications for the position of Postdoctoral Associate. Research topics will focus on population dynamics, modeling, and stock assessment of marine fisheries. This position will involve design, implementation, analysis, and presentation in both written and verbal forms. The incumbent will be expected to submit manuscripts based on his/her work to peer-reviewed journals and make presentations at national conferences. The incumbent will write grant proposals on related research.

Postdoctoral Associate-Engineering Science & Mechanics

061431

Position Responsibilities:

The postdoctoral associate will conduct research related to proton exchange fuel cell seal durability, performance, and design at Virginia Tech in Blacksburg, VA. Specifically, the postdoctoral associate will spend approximately 70% of his/her time planning and conducting original research and helping to guide students cooperating on funded research projects. The postdoctoral associate will focus on physical and chemical degradation mechanisms of elastomeric sealant materials in simulated or operating fuel cell environments. The other 30% of the postdoctoral associate's time will focus on assisting in the management of assigned research projects, including interacting with sponsors, writing papers, reports, and proposals related to current and future programs. The postdoctoral associate will be responsible for assisting in the development of research goals for the program and updating of research directions consistent with findings.

The postdoctoral associate will participate in writing proposals to outside agencies or entities that are planned for 2007, including (but not limited to) the National Science Foundation (NSF), the Department of Energy (DoE), and several indu

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Tuesday, October 02, 2007

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