Chem News - November 22, 2024

Today

Friday, November 22nd at **4:00pm** in **CP 114**, Dr. Thuy Duong Nguyen Phan from the U.S. Department of Energy National Energy Technology Laboratory (NELT) will present *Overview of NELT's Low Temperature CO_2 Electrolysis Research*. For more information, click **here**.

For a list of all past and upcoming events, please visit our **Events Overview**.

After UK, chemistry doctoral graduate pursues nanoparticle research at West Point

Now at the U.S. Military Academy at West Point, Calabro credits her interest in government research with the Department of Chemistry offering seminars with people from various industries, including the Department of Energy Labs and Department of Defense.

Rosemary Calabro found her love of research as an undergrad examining nanoparticles in materials chemistry. After graduating with her bachelor's degree from Indiana University in Bloomington, she applied to many graduate schools searching for the perfect fit. That's when she found professors Doo Young Kim and Dong-Sheng Yang at the University of Kentucky.

UK alum Rosemary Calabro working in the Multifunctional Materials Lab at West Point.

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Employment Opportunities

The U.S. Federal Bureau of Investigation (FBI) Critical Incident Response Group (CIRG) is accepting applications for their Visiting Scientist Program (VSP). CIRG consists of a cadre of special agents and professional support personnel who provide expertise in crisis management, hostage rescue, surveillance and aviation, hazardous devices mitigation, crisis negotiations, behavioral analysis, and tactical operations. As a **research fellow** with the Critical Incident Response Group (CIRG) Visiting Scientist Program (VSP), you will enhance your professional development and increase your research capabilities by participating in research initiatives under the mentorship of CIRG research personnel. The VSP will expose you to a work environment in a high security government facility and will provide an opportunity to perform research in areas of interest unique to law enforcement and national security. Applications are reviewed on a rolling basis. For more information and to apply, click **here**.

The Office of Dietary Supplements (ODS) is seeking a Postdoctoral Fellow for a project entitled, “Healthy Kids, Healthy Force, Healthy Nation.” The ODS serves as the lead program office focused on advancing and disseminating research on dietary supplements to foster knowledge and optimize health across the lifespan. This project centers on the role of exercise, dietary supplements, behavioral health, and underlying dietary habits on obesity, musculoskeletal health, and resilience in youth populations, including and especially those who are underserved and experiencing health disparities. Under the direction of a mentor, the fellow will learn how to design, contribute to, and perform timely literature reviews of efficacious well-designed interventions and programs, commentaries or position papers, and novel epidemiological analyses. The goal of these collective research efforts is to draw attention to the pressing need to prioritize prevention health behaviors (physical activity, nutrition, dietary supplement use, and healthy weight), with a frame of whole person health throughout the life course to promote workforce readiness. Applications will be reviewed on a rolling-basis, and mentors will select candidates as projects become available. For more information and to apply, click **here**.

The Advanced Materials and Manufacturing Technologies Office (AMMTO) is seeking Fellows to engage in existing efforts in material circularity. AMMTO funds research and development that enables and advances circular supply chains through Re-X pathways such as recycling, reuse, repair, remanufacturing, and repurposing. Fellows will provide technical and policy advice on AMMTO’s material circularity portfolio and support the team’s active project management of existing portfolio. This portfolio spans multiple offices within DOE and will include coordination and collaboration with the Office of Science, Bioenergy Technologies Office (BETO), Strategic Analysis, and others. Additionally, Fellows will collaborate on interagency connections between DOE efforts and the efforts within NSF, EPA, State Department, and Department of Commerce. Fellows will also provide input on analysis efforts and stakeholder engagement that inform and provide direction for future investment in material circularity. This Fellowship will last one year, with the opportunity to renew for additional years at the discretion of the sponsoring office. Applications are reviewed on a rolling basis. For more information about AMMTO, click **here**. To apply, click **here**.

The Joint Office of Energy and Transportation (JOET) is seeking dynamic, innovative Fellows for electric vehicles charging research. JOET applies a collaborative interagency approach to support the investment in, and deployment of, a convenient, reliable, affordable, accessible, and equitable national EV charging network supporting the successful execution of BIL funds for (1) states to build a national EV charging network along corridors, (2) community EV charging, (3) low- and no-emission transit buses, and (4) electric school buses. This Fellowship will last one year, with the opportunity to renew for additional years at discretion of the sponsoring office. Applications are reviewed on a rolling basis. For more information and to apply, click **here**.

The Office of Critical and Emerging Technologies (CET) is searching for a fellow to collaborate closely with all elements of the CET Office and with relevant DOE program offices across the complex. The CET facilitates an exchange among Departmental entities responsible for the development of critical and emerging technologies to advance Department of Energy (DOE) mission priorities. Emerging Technologies may include but are not limited to artificial intelligence and machine learning, quantum information and sensing technologies, high-performance computing, communications technologies, semiconductors and microelectronics, biotechnology, biomanufacturing, synthetic biology, genomics, pandemic surveillance and detection, advanced materials and manufacturing, and robotics and automation. The fellow will be mentored by the CET Director. For more information and to apply, click **here**.

The Building Technologies Office (BTO) is seeking innovative fellows to participate in U.S. Department of Energy (DOE) clean energy initiatives. As a Fellow, you will engage and interact closely with BTO staff and National Laboratory scientists on research, development, and deployment of building energy codes and building performance standards to produce significant energy savings across the built environment. Fellows will experience full immersion in the **Building Energy Codes Program (BECP)** and **Commercial Buildings Integration (CBI)** technical projects and activities, interacting with experts in academia, industry, and at the National Labs. Fellows will also engage a diverse mix of state, local, and non-governmental stakeholders. You may also engage with other programs at the Department of Energy and across the Federal government. This Fellowship will last one year, with the opportunity to renew for additional years at the discretion of the sponsoring office. For more information and to apply, click **here**.

C&EN Job Opportunities brought to you by the American Chemical Society.

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