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# Physics Digest

News, info, and updates for Ph.D. students in Physics at UW-Madison

October 8th, 2021

## Announcements

### Memberships Available: UW-Madison APS Chapter

The [American Physical Society](#) (APS) has approved UW-Madison for an APS Chapter, which is a new program for graduate students and early career scientists (defined as having received their PhD within the past five years). There are no fees or responsibilities required to be a member of the chapter and the chapter can request speakers from the APS and will receive a small grant every 6 months. In addition, chapter members who are also APS members may have the opportunity to apply for certain travel grants. More information on the program can be found [here](#). The chapter will be holding officer elections beginning October 11th and you can sign up to be a member [here](#). For more information, contact [Luca Riitano](#).

### 2022-2023 FAFSA Is Available

As of October 1st, 2021, the Free Application for Federal Student Aid (FAFSA) for the 2022-2023 academic year is open. If you are interested in submitting a FAFSA application, the UW-Madison Office of Student Financial Aid is offering [advising services and individual assistance](#).

### Flu Shots Available Through UHS

University Health Services (UHS) is currently offering flu shots to all students and employees. Campus community members can significantly reduce their chance of becoming ill by getting vaccinated. Visit [uhs.wisc.edu/flushots](https://uhs.wisc.edu/flushots) for dates, times, and locations throughout the fall semester.

## Upcoming Events

### Department of Physics Event Calendar

See the departmental events calendar to be sure you don't miss any of the upcoming seminars, workshops, or journal clubs!

### Student Affairs: Campus Happenings

See the UW Student Affairs news website and scroll to the "current happenings" listing each week.

### **UW-Madison Three Minute Thesis Competition**

*Deadline: October 14th, 2021*

The UW-Madison Graduate School will be hosting the 2021-2022 Three Minute Thesis Competition this Fall. Students in research-based master's and PhD programs from all disciplines are eligible to compete. The deadline to register for the competition is October 14, 2021 and you can click [here](#) to register and for more information.

### **The Science Coalition: Fund it Forward Video Challenge**

*Deadline: October 18th, 2021*

UW-Madison undergraduate and graduate students are invited to submit 60-90 second videos highlighting their research and the importance of federal support for fundamental research. Participants will be evaluated based on their messaging and communication, creativity, and video and editing quality. First place winners will receive \$1,000, second place winners will receive \$750, and third place winners will receive \$500. Graduate and undergraduate submissions will be judged separately. The winner of the People's Choice Award, which is open to both graduates and undergraduates, will receive \$500. Click [here](#) for more information, click [here](#) for a social media guide, and click [here](#) for some sample tweets and Fund it Forward logos.

### **Student Employee Diversity Forum Series**

*Date: November 18th - 22nd, 2021*

The University of Wisconsin-Madison will be hosting a series of virtual sessions for student employees on topics ranging from self care to equity in the workplace. More information on individual sessions can be found [here](#).

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## **Professional Development**

### **QED-C Student Research ePoster Sessions**

The Quantum Economic Development Consortium hosts monthly Student Research ePoster Sessions in which students present on their research in quantum computing to a diverse audience of researchers, employers, students, and QED-C community members. Presentations last 10 minutes followed by a 5-minute Q&A session. This is a fantastic opportunity to expand on your presentation skills and to display your prowess in the field of quantum computing. If you are interested in participating, contact [Jackson Kennedy](#).

### **Delta Program: Bring an Inclusive Mindset to Your Teaching**

*Date: October 8th, 2021; 10 AM - 11:30 AM*

Learn about inclusive teaching approaches that build upon inclusive design frameworks, case studies, and educational research in this one-session workshop. As an introduction to inclusive teaching techniques, Professors Kelly Hogan and Viji Sathy of the University of North Carolina will ask participants to reflect on inequities and diversity in their classrooms through interactive activities. After providing a framework for inclusive design and their own research results, Hogan and Sathy will lead participants through active learning exercises and case studies that explore inclusive techniques. Click [here](#) for more information and to register.

### **Delta Program: LinkedIn For Academics**

*Date: October 9th, 2021; 11 AM - 12:30 PM*

You have a LinkedIn account and the basics set up; now what? Wait for people to find you? No. “Networking” is an active process that takes time and planning. Click [here](#) for more information and to register.

### **Delta Program: A Faculty Panel on Strategies & Practices For Antiracist Classrooms**

*Date: October 11th, 2021; 11 AM - 12 PM*

Join The Delta Program for a multidisciplinary panel discussion of faculty who have incorporated various antiracist approaches into their teaching at IUPUI. We'll hear from Dr. Marilee Brooks-Gillies, an Assistant Professor of English who has developed antiracist writing and assessment practices; Dr. Jamie Levine Daniel, an Associate Professor in the O'Neill School of Public and Environmental Affairs and a specialist on anti-semitism in higher education; Dr. Ronda Henry Anthony, an Associate Professor of English and Africana Studies who has led several IUPUI initiatives on antiracism; and Dr. Michin Hong, an Associate Professor of Social Work with a research focus on anti-Asian racism and IUPUI's Asian American student community. Click [here](#) for more information and to register.

### **Quantum Investment Summit**

*Date: October 12th - 13th, 2021*

Growing a vibrant quantum ecosystem and effectively commercializing innovative research requires making the right connections. The [Quantum Startup Foundry](#) presents the first annual Quantum Investment Summit bringing together top quantum private investors, thought leaders, experts and executives from the most innovative corporations, startups, academic institutions and government entities with two goals: (1) Increase startups' access to financial and talent resources; (2) Develop a broader, globally-connected ecosystem to support and accelerate the advancement and commercialization of innovative quantum technologies.

Register [here](#) to join virtually or in-person!

### **Graduate School: 3 Ways to Fight Back Against Imposter Syndrome in Your Job Search**

*Date: October 14th, 2021; 4 PM - 5:30 PM*

In this Aurora webinar, L. Maren Wood, PhD, will provide you with tips and strategies for overcoming feeling like an imposter as you explore new career fields and begin applying for jobs outside of academia.

Free to those with a UW-Madison NetID. Advance registration is required [here](#).

### **Delta Program: Internship Info Session**

*Date: October 19th, 2021; 12 PM - 1 PM*

The [Delta Program Internship](#) is a real-world teaching-as-research project for graduate and postdoctoral students. This info session will discuss prerequisite requirements, finding a project and a faculty mentor, the structure of the internship program and seminar, and how this project can contribute to your job search in academia or beyond.

### **Graduate School: Dismantling Disciplinary Whiteness: Centering Care in Editorial Stewardship**

*Date: October 19th, 2021; 1 PM - 2:30 PM*

Join facilitator Mohan J. Dutta, PhD, for this National Center for Faculty Development and Diversity webinar that will foreground strategies for decolonizing journal spaces, attending to the challenges to decolonization and the ongoing work of sustaining transformative spaces. Activate your free (UW-Madison) NCFDD membership or sign in to watch the webinar [here](#).

### **Delta Program: Teaching for Well-Being Practices**

*October 20th, 2021; 10 AM - 11:30 AM*

his introductory workshop to health-promoting pedagogies will present strategies to support both student learning and well-being by cultivating a welcoming, trusting, and empowering learning environment. Join us to explore evidence-based health-promoting practices and to consult with others and workshop applying these strategies in courses you teach (or anticipate teaching). Click [here](#) for more information and to register.

### **Graduate School: Imagining and Mapping Your Network of Mentors**

*Date: October 21st, 2021; 11 AM - 12:15 PM*

Whether you are looking for your first mentor or thinking about expanding your “board of directors,” you will leave with a mentoring map and better prepared to reach out to a potential mentor. Click [here](#) to register.

### **Graduate School: Grad School After Coursework: Tips for a Successful Transition**

*Date: October 26th, 2021; 11:30 AM - 1:15 PM*

For graduate students finalizing coursework and beginning independent research and writing, or those who anticipate doing so soon: learn practical strategies for focusing on your writing, managing your time to stay on track, and developing a supportive mentorship environment. Click [here](#) to register.

### **Delta Program: Understanding Levers of Change in Academia**

*Date: November 10th and November 24th, 2021*

Enacting change in big, complex institutions is a daunting task — especially for grad students, postdocs, and early career faculty — and knowing the levers of power on your own campus is an essential first step. In this two-part workshop, participants will do a deep dive into the structural aspects of change (regimented processes, deadlines, and rules) and the social components of power in higher education (key stakeholders, institutional culture, and unspoken norms). Click [here](#) for more information and to register.

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## **Employment and Funding Opportunities**

### **STEM Public Service Fellows**

*Deadline: October 20th, 2021*

The Public Service Fellows program is a three-semester professional development sequence for graduate students in STEM. It culminates in a mentored practicum with a campus, community, or governmental organization. There will be a virtual drop-in information session on [October 12th from 11:30 AM -12:30 PM](#). Click [here](#) to learn more about the program and click [here](#) to apply.

### **Princeton University: Robert Dicke Fellowships Postdoctoral Positions**

*Deadline: October 22nd, 2021*

The Princeton University Physics Department seeks exceptional recent Ph.D. recipients in experimental physics for an honorific postdoctoral fellowship program. Candidates from all areas of experimental physics will be considered and selected through an annual competition. The selected scholars are expected to work with the existing experimental groups in the department, although those who wish to pursue a specific independent research program will also be considered. Princeton has experimental research programs in Atomic Physics, Biophysics, Condensed Matter Physics, Cosmology & Gravitation, High Energy Physics, and Particle Astrophysics. In their application, applicants are encouraged to discuss potential research group or groups that they would be interested in working with. This year the Physics Department will select

two postdoctoral research scholars with annual appointments including salary, benefits, and \$9,000 in discretionary funds. For more information and to apply, click [here](#).

### **Harvard Quantum Initiative Postdoctoral Fellowship**

*Deadline: November 1st, 2021*

The [Harvard Quantum Initiative in Science and Engineering](#) (HQI) is a community of researchers with an intense interest in advancing the science and engineering of quantum systems and their applications. Our mission is to help scientists and engineers explore new ways to transform quantum theory into useful systems and devices. The HQI is now accepting nominations for the 2022-2024 cohort of HQI Postdoctoral Fellows. Click [here](#) to apply and send all questions to [Ann Quaicoe](#) or [David Demille](#).

### **Chicago Quantum Exchange: Postdoctoral Fellowship in Theoretical Quantum Science**

*Deadline: November 11th, 2021*

The Chicago Quantum Exchange (CQE), Computer Science Department (CS) and Pritzker School of Molecular Engineering (PME) at the University of Chicago are seeking exceptional candidates for the Chicago Prize Postdoctoral Fellowship in Theoretical Quantum Science. Chicago Prize Postdoctoral Fellows will have the opportunity to interact with physicists and computer scientists at the University of Chicago. Fellowships are awarded for a duration of two years to outstanding young scientists and engineers, with the possibility of a third year of support. Applicants should have a strong research background in their area of interest, Successful candidates are encouraged to collaborate with members of the broad experimental quantum information program at the University of Chicago. Applications focused on collaborative and cross-disciplinary research are especially encouraged. Click [here](#) to apply and send all questions to [Aashish Clerk](#).

### **Rockefeller University: Postdoctoral Positions**

*Deadline: November 15th, 2021*

The Center for Studies in Physics and Biology at The Rockefeller University expects to have a small number of postdoctoral fellowships available for appointments in September 2022. They are seeking theoretical physicists, mathematicians and computer scientists with a demonstrable interest in the interface between their discipline and biology. Click [here](#) for more information.

### **Argonne National Laboratory: Postdoctoral Appointee in Quantum Information Science**

The Mathematics and Computer Science (MCS) Division at Argonne National Laboratory seeks multiple postdoctoral candidates. Postdoctoral appointees will contribute to projects that design quantum compilers, develop new quantum algorithms, model the behavior of multiqubit systems, perform quantum network simulations, and develop quantum network protocols. Positions are available immediately as well as with start dates in 2022. U.S. citizenship or permanent residency is not required. For more information and to apply, please click [here](#). For questions, contact [Martin Suchara](#).

### **Army Research Laboratory QST: Staff Scientists and Postdoctoral Fellows**

The Quantum Science and Technology Branch (QST) in the Army Research Laboratory has multiple openings for staff scientists and post-doctoral fellows. The openings include efforts in quantum sensing, timing, quantum memories, and entanglement distribution. We are leveraging multiple platforms to enhance light-matter interactions, which will enable us to explore fundamental physics and develop practical quantum technologies. Efforts include developing near-term quantum sensors as well as practical quantum-enhanced metrology/distributed-entanglement gains for future Army systems. QST has a close collaboration

with the Quantum Technology Center at the University of Maryland (QTC) including shared lab space and projects. Click [here](#) for more information and to apply.

#### **Honeywell: Advanced R&D Engineer/Scientist**

Honeywell is hiring an Advanced R&D Engineer/Scientist whose main duties will be to develop new concepts, write proposals, and create and test hardware prototypes and to transform customer requirements into innovative prototypes based on creative design and rigorous analysis. Click [here](#) for more information and to apply. All questions can be sent to [Mikhail Kats](#).

#### **IBM: Summer 2022 Internships**

IBM has begun the application process for their 2022 summer internships and early-career opportunities. Click [here](#) for more details and to apply.

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### **Useful Links**

[Dates and Deadlines from the Office of the Registrar](#)

[Warrant Request Form](#)

[Graduate School Degree Deadlines](#)

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### **Connect with us!**



#### **[Department of Physics](#)**

1150 University Avenue, Madison, WI 53706

*This newsletter is for Ph.D. students in Physics at UW–Madison; we update the mailing list at the start of each semester. Please contact [phddigest@physics.wisc.edu](mailto:phddigest@physics.wisc.edu) with any questions.*