



Physics Digest

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

October 15th, 2021

Announcements

Update Bios on Physics Website

Students can now provide/update their own bio on the department website. To do so, visit <https://www.physics.wisc.edu/internal/update-my-directory-entry/> (you should be prompted to log in with your netID if you are not logged in already). When filling out your bio, please remember it is the department's university-affiliated website, not a personal website. You certainly can share some personal things that are appropriate if you want, but please use discretion. We will work with Kevin Black and Mark Eriksson to set clear content policies if grey areas come up. Send any questions to [Sarah Perdue](#).

Winter 2021 Commencement Checklist

Winter 2021 Commencement will take place on Sunday, December 19th at 10 AM at the Kohl Center. If you are graduating this semester and are interested in attending, please review the [graduation checklist](#) and the [commencement website](#).

Apply Now for Dissertation Writing Camp

Deadline: November 5th, 2021

Supported by the Graduate School and facilitated by Writing Center senior staff, the January 2022 (January 3rd - 7th) Dissertation Writing Camp offers an opportunity for dissertators to make significant progress on their dissertations by drafting a substantial amount of writing in a structured, collegial virtual environment. Applications are due by Friday, November 5, 2021 and require an advisor endorsement. Click [here](#) for more information and contact [Eileen Callahan](#) with any questions.

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](#).

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 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.

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](#).

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: 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

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

This 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.

Boren Graduate Fellowship Information Session

Date: October 20th, 2021; 3 PM - 4 PM

The IRIS Awards office is sponsoring an information session for UW-Madison graduate students interested in learning more about the [Boren Fellowship program](#) in 206 Ingraham Hall. [Boren Fellowships](#) provide up to \$30,000 for graduate students to add an important international and language component (including in support of in-country research) to their graduate education through specialization in area study, language study, or increased language proficiency. Join Jeff Cary, Boren Awards Outreach & Recruitment Manager, to learn more about the Boren Fellowships, what makes for a competitive application, eligibility, service requirements, and more. Click [here](#) for more information and contact [Mark Lilleleht](#) with any questions.

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 be 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: Inclusive Teaching Workshop

Date: November 5th, 2021; 9 AM - 12 PM

Examine a range of inclusive teaching approaches to use in the classroom and beyond, and practice what to say during "hot moments" or difficult discussions. 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.

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. 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.

Useful Links

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

[Warrant Request Form](#)

[Graduate School Degree Deadlines](#)

Connect with us!



[Department of Physics](#)

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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 with any questions.