



MSPQC Newsletter

News, info and updates for MSPQC students at UW–Madison

May 3rd, 2021

Announcements

MSPQC Career Development Series

The first session of our 2021 MSPQC Career Development Series will take place on Friday, May 7th, from 11 AM to 11:30 AM. You will be able to join this session at the following [link](#). All subsequent sessions of this series will take place on Tuesdays from 12 to 1 PM. All MSPQC students have been added to a Canvas site for the series where course documents and resources will be hosted. Send all questions to [Jackson Kennedy](#).

Announcing the MSPQC Class of 2021

We are excited to share with you the Physics MSPQC incoming Class of 2021. We have a total of 18 incoming MSPQC students this year including 3 women and 1 AOF eligible student. The list of students and some basic information about the incoming class is available [here](#).

UHS Vaccine Appointments Available

University Health Services (UHS) has COVID-19 vaccine appointments available for employees and students. UHS is also now able to offer vaccines to anyone who lives, works or studies in Wisconsin, including friends and family of UW–Madison students and employees. For more information and to schedule a vaccine appointment, visit click [here](#).

Summer 2021 COVID-19 Campus Update

The Office of the Chancellor has distributed new campus COVID-19 building access, testing, and vaccination guidelines for Summer 2021. Please note that, effective May 10, 2021, access to campus buildings and facilities will no longer be limited to those with green/building access granted Badger Badges unless required by those overseeing a specific space, event, or other in-person activity.

Spring 2021 Grading Policies Updated: SD/UD Available for Grad Students

UW-Madison will implement a very similar disruption grading policy in spring 2021 as it did in spring 2020, with the amendment noted below (see #2) that UD (Unsatisfactory-Disruption) be changed to (University Disruption-No Credit).

Change to description of spring 2020 "UD" grades: The UD grade, used on the transcript for the spring 2020 term, will remain as "UD". In public facing documents, such as the transcript legend and the Guide, the UD grade will be defined as "University Disruption-No Credit".

Pandemic transcript notation: In the transcript memorandum section for any student enrolled at UW-Madison during spring 2020-spring 2021, this standard statement will be applied: "A global public health emergency in spring 2020, summer 2020, fall 2020 and spring 2021 required marked changes to university operations that may have significantly affected student enrollment, learning and grading."

Summer and Fall 2021 Enrollment Happening Now!

Summer 2021 enrollment began on April 5th and Fall 2021 enrollment began on April 12th. If you need to enroll in Physics 799, please email [Jackson Kennedy](#) and copy your faculty mentor. For enrollment in Physics 707, please email [Jackson Kennedy](#) for instructions.

Professional Development & Events

Argonne National Laboratory: The Quantum Revolution

Date: May 5, 2021; 10:00 AM – 11:30 AM CST

Join the Argonne National Laboratory as it celebrates its 75th anniversary with a colloquium discussing how quantum computing, communication and sensing will change the world. This event will feature a keynote by Dario Gil, Senior Vice President and Director of IBM Research followed by a panel discussion with top quantum technology researchers. For more information and to register, click [here](#).

Business Implications of Quantum Computing

Date: May 12, 2021; 11:00 AM CST

The Chicago Quantum Exchange (CQE) will be hosting a webinar addressing the uncertain future of the quantum computing sector. Ivan Ostojic and Rodney Zempel from McKinsey Digital will share their findings about these uncertainties and their development of an initial roadmap for businesses looking to participate in Quantum opportunities. To join, click [here](#).

Discount: Inside Quantum Technology New York Meeting

Date: May 17-20, 2021

QED-C is pleased to partner again with Inside Quantum Technology (IQT) to offer a discount on registration to the upcoming online IQT New York meeting on May 17 -20. The conference brings together industry leaders from around the world—from suppliers to system developers to end users. Use the promo code QEDC20 to get a \$20 discount on the regular price.

CQE: Pulse-Level Quantum Control Workshop

Date: May 17-18, 2021

The Chicago Quantum Exchange will be hosting a workshop on low-level quantum control. This workshop aims to inform the broader community on the advantages of pulse-level quantum programming, and discuss the importance of custom-designed hardware for near-term quantum advantage. To register, click [here](#).

NSF Workshop: Quantum Devices & Systems Manufacturing Workshop

Date: May 18, 19, 25, & 26, 2021; 12:00 PM - 5:15 PM EST

This workshop aims to identify issues in the manufacturing sciences area that could be addressed by NSF. The focus areas include: 1) materials and devices challenges in the key technologies: Si-based, superconducting devices, point defects in semiconductors, and topological materials, 2) device and materials integration challenges and interfaces, and 3) scaling, packaging, and refrigeration. To register, contact [Matthew Novik](#).

Employment Opportunities

MSPQC Career Toolkit

MSPQC Program Coordinator Jackson Kennedy manages and updates the [MSPQC Career Toolkit](#). This is the central hub for professional development and job search opportunities for MSPQC students and is updated frequently. Contact [Jackson Kennedy](#) with questions, concerns, and suggestions.

QED-C Student Database

QED-C Maintains a database of students obtaining degrees in quantum computing. This database is shared with employers, internship providers, and consortium partners. To add yourself to this database, complete the [Student Info Form](#) (password: Students@QED-C) and use Jackson Kennedy (jkenney3@wisc.edu) as your advisor email.

IBM: Quantum Computing Applications Researcher

IBM seeks applicants to collaborate with IBM Researchers to drive fundamental knowledge of quantum computing applications and algorithms in industry domains such as finance, optimization, machine learning, and chemistry. This position will work closely with industry research partners in the IBM Q Network to identify problems that show promise for quantum advantage, engage in joint research to develop proof-of-concept implementations of quantum solutions, and develop software implementing these solutions. To apply, click [here](#).

IQUIST: Research Program Manager

The Illinois Quantum Information Science and Technology Center (IQUIST) housed in the Materials Research Laboratory (MRL) at The Grainger College of Engineering seeks applicants for the position of

Research Laboratory (RLR) at The College of Engineering seeks applicants for the position of Research Program Manager. This position will work collaboratively with faculty, staff, and students at IQUIST and external collaborators to develop and implement a variety of programmatic initiatives designed to enable the success of federally funded quantum information science research programs, such as the DOE Energy Frontier Research Center for Quantum Sensing and Quantum Materials and the NSF Quantum Leap Challenge Institute Hybrid Quantum Architectures and Networking. Please send all questions to [Summer Redman](#) and to view the job description and apply, click [here](#).

Toshiba: Technical Marketing Manager

Toshiba is looking for an experienced and driven Technical Marketing Manager to help establish a foundation for their QKD technology service in the United States. This is a unique opportunity to work with cutting-edge quantum cryptography technology and a diverse set of commercial clients. The Technical Marketing Manager will take a lead role in helping customers deploy Toshiba's QKD technology service, as well as lead proof-of-concept trials and assist with local marketing initiatives. This is a dynamic, hybrid role that combines elements of customer technical support, technical marketing, and product planning. Please send all questions to [Ryan White](#) and to view the job description and apply, click [here](#).

Systems & Technology Research: Physicists and Engineers in Sensors Division

[Systems & Technology Research](#) (STR), in particular the Sensors Division, is actively recruiting physicists and engineers. Interested students (undergrad or graduate) or postdocs in physics, engineering, applied math, or related fields who are considering industrial positions in research and development are encouraged to review the website and reach out to [Nicholas Schade](#). US citizenship is required.

Honeywell: Quantum Computer Operator

In this position you will work closely with a team of research scientists to operate, maintain, and upgrade a commercial quantum computer, analyze performance and reliability of the system and work with scientific team to plan upgrades and add features, and provide technical support to customers and support teams on sophisticated technical problems. Apply [here](#).

Amazon: Quantum Software Engineer

In this position you will write software to automate manual work when designing quantum devices, build dashboard to display the progress of simulations, and parallelize numerical simulation codes. Apply [here](#).

IBM: Quantum Computational Scientist

In this position you will work with the IBM Q Start team on active exploratory research engagements to prepare for future use case commercialization within specific industry, interact with client data science teams to explore promising areas for quantum, implement quantum approaches, which includes data pre-/post-processing, running numerics and visualizing data, and collaborate with industry and solution-ing experts to design and shape experiments to demonstrate quantum-enabled advantage. Apply [here](#).

Useful Links

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

[MSPQC Career Toolkit](#)

[MSPQC Handbook](#)

[Professional Development from the Graduate School](#)

Connect with us!



[Department of Physics](#)

1150 University Avenue, Madison, WI 53706

This newsletter is for MSPQC students at UW–Madison; we update the mailing list at the start of each semester. Please contact [Jackson Kennedy](#) with any questions.