NEWS OF THE WEEK

JULY 17, 2023

DEPARTMENT'S SEMINAR/EVENTS

• Congratulations to Graduate Student Matt Murdock for receiving the Philadelphia STLE Scholarship award

DEPARTMENT'S SEMINAR/EVENTS

- Summer Moo Mobile Parties1
 2:00 PM 1:45 PM
 Outside Colburn Lab next to facilities
 - Friday, August 11
 Ticket pick-up available for pick-up August 10 & 11 from 8:30 AM – 11:30 AM in 237 CLB
 (*only 100 tickets available – 1st come, 1st served)
 - Tuesday, August 29
 Ticket pick-up available for pick-up August 28 & 29 from 8:30 AM 11:30 AM in 235 CLB
 (*only 100 tickets available 1st come, 1st served)
- CBE Graduate Student Welcome Picnic
 Monday, August 28
 4:30-7:00 PM at White Clay Creek State Park, Carpenter Recreation Area

ROWLAND FELLOWSHIP APPLICATION

Rowland Fellows

The Rowland Institute at Harvard is inviting applications for Rowland Fellowships starting in the year 2024. We seek highly promising, early-career experimentalists in their independent pursuit of groundbreaking research in all areas of science and engineering. **Deadline: August 18, 2023**

CLICK HERE for more information

DOW PHD RECRUITING

Dow PhD Recruiting at U. Delaware

On-Campus Interviews – August 1 & 2, UD Career Services Center

- Our job is posted and actively accepting applications in Handshake until July 25
- Sign-up for an interview in Handshake now
- Provide a resume, cover letter and product/summary of your technical work
- We are interested in candidates with experience in polymer/materials/science, catalysis/reaction engineering, data science/modeling/AI/ML, and related research

Dow Information Session – July 18, 3–5pm, 102 Colburn Lab

- Event has been created in Handshake
- All candidates interested in interviewing with us (even in the future) should plan to attend
- Come prepared to ask questions and to receive information about Dow that may be useful for interviews, and insight about the interviews

Dow Recruiting at U. Delaware LinkedIn Group

- Be sure to join our LinkedIn group for the most up-to-date information about Dow and recruiting events
- evenis
- <u>https://www.linkedin.com/groups/8611996/</u>

CLICK HERE for more information

PMSE CENTENNIAL EVENTS

Centennial symposia for Spring 2024 meeting:

PMSE will celebrate our 100-year anniversary in 2024, and we are planning for a Centennial celebration at the Spring 2024 meeting. Here is a short update on our plans. We will have Centennial-themed symposia (see below), a reception for all PMSE members, and Centennial swag. Importantly, there is an opportunity for graduate students and postdocs to be recognized in the "PMSE Centennial: Future Leaders of Polymeric Materials Science and Engineering" symposium. Please help us to advertise this opportunity in the polymers community (**nomination deadline is July 24**, more information at <u>https://pmsedivision.org/pmse100_nominations/</u>).

- PMSE Centennial: Celebration of Success and New Frontiers in Polymeric Materials Science and Engineering. Organizers: Melissa Grunlan (Texas A&M), LaShanda Korley (U Delaware), Qinghuang Lin (Lam Research), Chris Soles (NIST)
- 2. PMSE Centennial: Panel Discussion on the Future of Plastics. **Organizers**: Tim Bunning (AFRL), Rachel Letteri (U Virginia), YuanQiao Rao (Dow), Michael Silverstein (Technion IIT)
- 3. PMSE Centennial: Future Leaders of Polymeric Materials Science and Engineering. **Organizers**: Kelly Burke (U Conn), Matt Golder (U Washington), Hyunki Kim (3M), Abhishek Roy (NREL)
- 4. Centennial-Themed Poster Awards. **Organizers**: Cristina Thomas (PMSE Program Chair), Adrian Figg (Virginia Tech), Bhavya Singhi (Zeus Industrial Products), Rong Yang (Cornell)

JOBS/RECRUITING

• University of Melbourne

Position: Senior Lecturer in Chemical Engineering

Brief description: As an aspiring leader in Chemical Engineering, this position will deliver teaching into graduate and undergraduate programs as well as build a world class, independent and well-funded research program in a field consistent with the department's research domains. The ideal candidate aspires to develop process technologies which enable the sustainable recovery of metals and other materials necessary for a low carbon energy future. The successful candidate will be able to apply chemical process engineering to recovering resources from mineral ores, tailings or end of life products. The candidate will collaborate with key stakeholders internally within the Department and the School and more broadly through external key industry and government agencies. See attached for more information.

Available positions can be found on the Chemical & Biomolecular Engineering **opportunity website**, so be sure to check it regularly.



School of Chemical and Biomedical Engineering Faculty of Engineering and Information Technology

Senior Lecturer in Chemical Engineering

POSITION NO	0055512
CLASSIFICATION	Level C, Level D
SALARY	Level C - \$140,433 - \$161,926 p.a Level D - \$169,094 - \$186,288 p.a
SUPERANNUATION	Employer contribution of 17%
WORKING HOURS	Full-time
BASIS OF EMPLOYMENT	Continuing Applications for part-time or other flexible working arrangements will be welcomed and will be fully considered subject to meeting the inherent requirements of the position
OTHER BENEFITS	https://about.unimelb.edu.au/careers/staff-benefits
HOW TO APPLY	Online applications are preferred. Go to http://about.unimelb.edu.au/careers, select the relevant option ('Current Opportunities' or 'Jobs available to current staff'), then find the position by title or number.
CONTACT FOR ENQUIRIES ONLY	A/ Professor Kathryn Mumford Email: mumfordk@unimelb.edu.au Please do not send your application to this contact

For information about working for the University of Melbourne, visit our website: about.unimelb.edu.au/careers

Acknowledgement of Country

The University of Melbourne acknowledges the Traditional Owners of the unceded land on which we work, learn and live: the Wurundjeri Woi Wurrung and Bunurong peoples (Burnley, Fishermans Bend, Parkville, Southbank and Werribee campuses), the Yorta Yorta Nation (Dookie and Shepparton campuses), and the Dja Dja Wurrung people (Creswick campus).

The University also acknowledges and is grateful to the Traditional Owners, Elders and Knowledge Holders of all Indigenous nations and clans who have been instrumental in our reconciliation journey.

We recognise the unique place held by Aboriginal and Torres Strait Islander peoples as the original owners and custodians of the lands and waterways across the Australian continent, with histories of continuous connection dating back more than 60,000 years. We also acknowledge their enduring cultural practices of caring for Country.

We pay respect to Elders past, present and future, and acknowledge the importance of Indigenous knowledge in the Academy. As a community of researchers, teachers, professional staff and students we are privileged to work and learn every day with Indigenous colleagues and partners.

Commitment to Diversity and Inclusion

The Faculty of Engineering and Information Technology (FEIT) is committed to creating a diverse and inclusive environment that welcomes and values all people. We recognise that diversity is essential in contributing to the success of FEIT. Women, Aboriginal and Torres Strait Islanders, the LGBTIQ+ community, people living with disability and those from a culturally and linguistically diverse background, are strongly encouraged to apply. Those seeking support in submitting an application are welcome to contact the Faculty HR team at feit-hr@unimelb.edu.au

Position Summary

As an aspiring leader in Chemical Engineering, this position will deliver teaching into graduate and undergraduate programs as well as build a world class, independent and well-funded research program in a field consistent with the department's research domains. The ideal candidate aspires to develop process technologies which enable the sustainable recovery of metals and other materials necessary for a low carbon energy future. The successful candidate will be able to apply chemical process engineering to recovering resources from mineral ores, tailings or end of life products. The candidate will collaborate with key stakeholders internally within the Department and the School and more broadly through external key industry and government agencies.

For this position we are looking for a candidate with a strong research profile in one or more of the following fields:

- Resource recovery
- Mineral processing
- Recycling
- Circular Economy

1. Key Responsibilities

The position description should be read alongside the Academic Career Benchmarks.

1.1 CONTRIBUTION TO TEACHING AND LEARNING

- Effective preparation and delivery of lectures at undergraduate and postgraduate level and the assessment of that material.
- Teach subjects in the Master of Chemical Engineering, Specialised Masters or in engineering and breadth subjects taught in the University's Melbourne Model Undergraduate degrees.
- Provide adequate access for consultation with, and mentoring of, students.
- Initiate and develop high quality subject material.
- Supervise the program of study of undergraduate, graduate or postgraduate students engaged in coursework or smaller research projects.
- Development of curriculum at both undergraduate and postgraduate levels.
- Consultation with and academic mentoring of students.
- Conduct tutorials and practical classes, in addition to marking and assessment.

1.2 RESEARCH AND ADVANCEMENT OF DISCIPLINE

- You are expected to significantly contribute towards the research effort of the team and to develop your research expertise with an increasing degree of autonomy.
- Conduct research, including the publication of high-quality scientific research outcomes and the dissemination of research results at leading international conferences.
- Develop a portfolio of funding to support a research program that includes preparing grant applications, including success in obtaining external research grant income to support that research, to both internal and external funding agencies.
- Present at research workshops and seminars within the department.
- Engage with relevant professional and industry bodies and stakeholders to foster collaborative partnerships.
- Active supervision of postgraduate students, both Masters and PhD.

1.3 ENGAGEMENT

- Build and foster industry engagement, including the development of collaborative research opportunities.
- Actively participate in professional activities including consulting, workshops and short courses for external participants and participation in meetings of professional societies.
- Engage in knowledge transfer and community activities beyond the university.

1.4 LEADERSHIP AND SERVICE

- Participate in industry and community liaison activities as arranged by the department.
- Participate in department activities such as Open day to promote student engagement as well as other student events including school visits.

- Contribute to, or present research to the public to elevate public awareness of educational development and promote critical enquiry and public debate within the community where appropriate.
- Participation in outreach activities.
- Perform other tasks as requested by the supervisor or the Head of the Department.
- Effective demonstration and promotion of University values including diversity and inclusion and high standards of ethics and integrity.

1.5 OTHER DUTIES

- Effective undertaking of a range of administrative functions, including those connected with teaching responsibilities and the conduct of the academic dealings of the School.
- Undertake Occupational Health and Safety (OH&S) responsibilities as outlined in Section 4.

1.6 OTHER JOB-RELATED INFORMATION

- This position requires the incumbent to hold a current and valid Working with Children Check.
- Occasional work out of ordinary hours, travel, etc.

2. Selection Criteria

2.1 ESSENTIAL

- A Bachelor and/or Masters degree in chemical engineering.
- A PhD in chemical engineering, applied science or a cognate discipline.
- A track record of quality research in chemical engineering related to resource recovery, including mineral processing, recycling, or waste minimisation and repurposing as evidenced by research publications in leading journals and conferences.
- Demonstrated record of achieving the highest levels of scholarship in engineering and/or industrial processing research relative to opportunity.
- Experience in leading a research program in fundamental and/or applied areas with clear links to industrial challenges.
- Demonstrated capacity to teach effectively across a broad range of chemical engineering subjects, including the capacity to develop and deliver high quality seminars, lectures and workshops with a focus on the student experience as well as contribute to other teaching activities.
- Excellent oral and written communication skills.
- Ability to build networks with industry partners and other researchers, both local and international.
- Demonstrated ability to work as part of a team.
- Demonstrated ability to work both independently and as part of a team in a professional and collegial manner, and to build rapport with all levels of staff within a diverse work environment.

2.2 DESIRABLE

- A track record of engagement with industry and/or government.
- Ability in applying for, and securing, awards.
- Past experience of engagement with the community or media in the context of research or scholarship.
- Experience and research publications in application of mineral and material processing technologies, such as physical or chemical separations and hydrometallurgy, applied to mineral ores, extraction of values from tailings or recycling materials such as metals, batteries, WEEE, or other products.
- Experience and research publications in developing techno-economic analysis of resource recovery in a circular economy.
- Experience and research publications in developing opportunities to repurpose or reuse waste such as mineral tailings, or biproducts of recyclate streams.

2.3 OTHER

An appointment to Level D Associate Professor, may be considered in exceptional circumstances where the candidate is an international expert in the subject domain

3. Equal Opportunity, Diversity and Inclusion

The University is committed to all aspects of equal opportunity, diversity and inclusion in the workplace and to providing all staff, students, contractors, honorary appointees, volunteers and visitors with a safe, respectful and rewarding environment free from all forms of unlawful discrimination, harassment, vilification and victimisation. This commitment is set out in the University's People Strategy and policies that address diversity and inclusion, equal employment opportunity, discrimination, sexual harassment, bullying and appropriate workplace behaviour. All staff are required to comply with all University policies.

All FEIT employees are required to behave in a manner that creates; supports and encourages an inclusive and safe work environment for all.

https://eng.unimelb.edu.au/diversity

4. Occupational Health and Safety (OHS)

All staff are required to take reasonable care for their own health and safety and that of other personnel who may be affected by their conduct.

OHS responsibilities applicable to positions are published at:

https://safety.unimelb.edu.au/people/community/responsibilities-of-personnel

These include general staff responsibilities and those additional responsibilities that apply for Managers and Supervisors and other Personnel.

5. Other Information

5.1 SCHOOL OF CHEMICAL AND BIOMEDICAL ENGINEERING

https://eng.unimelb.edu.au/about/departments/school-of-chemical-and-biomedical-engineering

The School of Chemical and Biomedical Engineering encompasses both the Department of Chemical Engineering and the Department of Biomedical Engineering. This fusion of engineering disciplines provides a dynamic and interdisciplinary environment that is world leading in both research and teaching.

5.2 5.2 DEPARTMENT OF CHEMICAL ENGINEERING

http://www.chemeng.unimelb.edu.au

The Department of Chemical Engineering hosts several Research Centres including the ARC Centre of Excellence for Enabling Eco-efficient beneficiation of minerals, and the ARC Research Hub for Digital Bioprocess Development.

Our laboratories are housed across four locations including a substantially renovated main building, a second building devoted exclusively to research, two floors within the nearby Chemistry building and a presence within the Bio21 Institute. Our academics have been elected as Fellows of the Royal Society, the world's oldest scientific society, the Australian Academy of Science, and the Australian Academy of Technological Sciences and Engineering.

Strong collaborations with industry, government and community partners inform teaching and research programs with real-world requirements. Industry Engagement is a key focus area for the Department. We carry out research projects based on deep collaborations with government and business and we also work with organisations that provide internship project opportunities for students.

We offer a Masters of Chemical Engineering with specialisations in Business, Sustainability and Environment, and Materials and Minerals, as well as undergraduate majors within the Bachelor of Science (Chemical Engineering Systems) and Bachelor of Commerce, with over 250 students.

5.3 FACULTY OF ENGINEERING AND INFORMATION TECHNOLOGY

The Faculty of Engineering and Information Technology (FEIT) has been the leading Australian provider of engineering and IT education and research for over 150 years. We are a multidisciplinary School organised into three key areas; Computing and Information Systems (CIS), Chemical and Biomedical Engineering (CBE) and Electrical, Mechanical and Infrastructure Engineering (EMI). FEIT continues to attract top staff and students with a global reputation and has a commitment to knowledge for the betterment of society.

FEIT has never been better positioned as a global leader, anchored in the dynamic Asia Pacific region, creating and curating knowledge to address some of the world's biggest challenges. Through our students and our relationships with communities, we can not only respond to society's needs but anticipate and create engineering and IT solutions for the future.

https://eng.unimelb.edu.au/

https://eng.unimelb.edu.au/about/join-mse

Our FEIT 2025 strategy, is our commitment to bring to life the University-wide strategy Advancing Melbourne and reinforce the University of Melbourne's position as one of the best in the world.

To achieve our ambitions, we will continue to build new infrastructure to enable our teaching, research and engagement; we continue to recruit outstanding people from around the world; and we continue to attract high-quality students from across the globe who are at the heart of our enterprise.

https://eng.unimelb.edu.au/about/mse-2025

5.4 THE UNIVERSITY OF MELBOURNE

Established in 1853, the University of Melbourne is a public-spirited institution that makes distinctive contributions to society in research, learning and teaching and engagement. It's consistently ranked among the leading universities in the world, with international rankings of world universities placing it as number 1 in Australia and number 32 in the world (Times Higher Education World University Rankings 2017-2018).

The University's 10-year strategy, *Advancing Melbourne 2030* will enable the University to contribute to advancing the state and national interest and make vital contributions to Australia's standing on the world stage. We seek to be a leading force in advancing Australia as an ambitious, forward-thinking country while increasing its reputation and influence globally. https://about.unimelb.edu.au/strategy/advancing-melbourne

Further information about working at The University of Melbourne is available at http://about.unimelb.edu.au/careers