Weekly ESS Center Announcements

Week of June 27, 2023

Please share as you feel appropriate.

These weekly announcements are sent out on Tuesdays.

If you would like us to include your information, please send it to yadeeh@unm.edu by Friday at 5 PM.

ESS HOTLINE: 505-277-4354 | E-mail: ess@unm.edu | Website: ess.unm.edu

SUMMARY

All of our events are FREE and you can…
WIN a gift card. GAIN experience. BUILD your skill set. ENHANCE your resume.

- Upcoming Engineering Student Success Center Events and opportunities
  - This Week
    - …wow! June is already over.
  - New Announcements
    - Food for Thought: Learn from Every Moment
    - ESS is hiring tutors
  - Next Week
    - Happy 4th of July.
Coming Up

- Summer Bridge Sessions (July 24 – Aug 11)
- Pre-Semester Prep Sessions (Aug 14 – 18)

Reminders

- Faculty Highlight: Ed Angel
- Consider being Showcased
- New MATLAB resources
- Practice word problems

Other ESS Center/SOE News and Info

- ‘Always there’: Engineering Student Success Center receives AFRL Excellence in STEM Award and more in this week’s Quick Takes from the Dean

Job/Research Opportunities/Scholarships

- Join our Internship Programs

Other UNM opportunities and news for STEM students

Community news and opportunities

Stay informed via our web app:

“engineering your succESS”

SUCCESS.UNM.EDU

Shortcut/“download” instructions:

https://success.unm.edu/menu/howToInstall/

Please share as you feel appropriate.
We have additional resources for Future Students HERE.

June is National Pride Month

ENGINEERING STUDENT SUCCESS CENTER EVENTS:

All students are welcome to attend.

More information can be found at https://ess.unm.edu/events or through our web app (succESS)

THIS WEEK:

...wow! June is already over.

NEW ANNOUNCEMENTS:
• **Food for thought: Learn from Every Moment**

There is something to be learned from every moment.
We are here to help you identify that “something.”

• **ESS is hiring tutors – come join our team!**
For details and to apply, please visit [https://unmjobs.unm.edu/ req25998](https://unmjobs.unm.edu/ req25998).

Select Search for a Job. Then in the filters select type of position - student, campus - main, and you can use the key word of Tutor. It is the posting on 6/20/2023. This is the direct link, but sometimes they don't work well.
[https://unm.csod.com/ux/ats/careersite/18/home/requisition/25998?c=unm&referralToken=zOxUIGBqAkOtpzLbdvEJpA](https://unm.csod.com/ux/ats/careersite/18/home/requisition/25998?c=unm&referralToken=zOxUIGBqAkOtpzLbdvEJpA)

For more information or if you have problems find the posting, please reach out to Doug Williams at dougwms@unm.edu.

**Best consideration date: 6/27/23 or until filled**

The Engineering Student Services department within the School of Engineering is in search of a tutor for Engineering & Computing course work.

The tutor will provide assistance for students with homework problems and other class assignments for a wide range of engineering and computing core STEM courses, as well as engineering and computing specific classes, softwares, and programs in both in-person and on-line modes.

For additional details or to apply, please visit [https://jobs.unm.edu > req25998](https://jobs.unm.edu > req25998)
**Next Week:**

Happy 4th of July. How do you plan to celebrate YOUR independence?

**COMING UP:**

- **Engineering Your Bridge to Success: Summer Bridge Sessions:** Nervous about starting at a University setting in the Fall? Want to feel confident entering your University courses? Then this opportunity is for you.
  - **What:** Summer Bridge Sessions
  - **When:** July 24 – August 11, 2023. 10 – 11:15 AM MST unless otherwise noted.
  - **Partners/Presenters:** ESS Center's very own Yadéeh Sawyer and Nada Abdelhack
  - **Where:** Synchronous in-person (in the ESS suite - CENT 2080) and virtual via Zoom (https://goto.unm.edu/esszoom). All sessions start at 10 am MST and typically go until 11:15 am, with a few sessions lasting longer. See specific session information below.
  - **More info:**
    - Read all about it on the Engineering Your Bridge to Success webpage. The goal of these workshops are to provide students with foundational skills to better support them as they enter their first semester at UNM. Mastering these skills will equip students to handle challenges they may face upon entering the University setting.
  - **RSVP for EACH desired session** at https://success.unm.edu/events is preferred but not required. RSVP will get you a calendar invite, and a week before and day before email reminder.
Pre-Semester Prep Workshops. These interactive workshops will review all foundational material leading up to the specified course so you are better equipped to hit the ground running.

- **What:** Pre-Semester Prep Series
  
  *Attend our Physics 1, Pre-Calc/Trig, Calc 1, or Calc 2 sessions and provide feedback for access to a general knowledge exam to even better prepare you for the first exam (and potentially beyond) within your course.*

- **When:** August 14 through August 18, 2023. Times are 10 AM – 12 PM with a few sessions 1 – 3 PM.

- **Partners/Presenters:** ESS Center and CAPS

- **Where:** Synchronous in-person (in the ESS suite - CENT 2080) and virtual via Zoom ([https://goto.unm.edu/esszoom](https://goto.unm.edu/esszoom))

- **RSVP for EACH desired session** at [https://success.unm.edu/events](https://success.unm.edu/events) is preferred but not required. RSVP will get you a calendar invite, and a week before and day before email reminder.
**Reminders:**

- Faculty Highlight. See what our faculty study.

Read about other highlights on our webpage dedicated to just this.

This posting is for Dr. Ed Angel within the Computer Science Department.
Consider being showcased
https://ess.unm.edu/resources/showcases/index.html

There is more to our students than just their technical interests. And, the more outside interests and experiences one has, including the arts and creative thinking, the better! Engineering and computing makes one’s other interests stronger, and those other interests enhance one’s engineering and computer science knowledge and ability.

These abilities include, but are not limited to, blogs (creative or technical), art work (visual or auditory), writings/reports (creative or technical, including published manuscripts), and presentations (oral or posters).

Are you interested in being showcased? Contact Dr. Yadéeh Sawyer at yadeeh@unm.edu or (505) 277-9151. She is always looking for more examples!

Check out our new MATLAB resources
https://ess.unm.edu/resources/academic-support.html

Under "Math & MATLAB (MathWorks) Resources"
• Practice word problems
We’ve partnered with the Center For Teaching and Learning (CTL) to create some practice word problems for you! Check them out on our academics resource page under ESS Presentations. And, don’t forget you can come get help from either our tutors or the CTL STEM tutors.

Other ESS Center/ SOE news and information:
• Quick Takes from the Dean - Week of June 26, 2023
  o ‘Always there’: Engineering Student Success Center receives AFRL Excellence in STEM Award
  o UNM among universities selected for AFRL satellite Mission Concept Program
  o UNM researcher featured in Scripps News segment
  o School of Engineering seeking internal applications for two new positions

Job/Research Opportunities/Scholarships
(See Previous Announcements below for additional opportunities)

Scholarships
• Please visit ESS Scholarships for a full list – many are available to all, regardless of citizenship status:
  Internal: https://ess.unm.edu/programs/current-students/scholarships/internal.html
  External: https://ess.unm.edu/programs/current-students/scholarships/external-scholarships/external.html

Looking for Scholarships?
Don’t miss the deadlines!
Incoming freshman
DEADLINE: FEBRUARY 1
Undergraduate summer scholarships
DEADLINE: MAY 20
College-wide and transfer scholarships (open to undergraduates and graduate students)
DEADLINE: JUNE 1
Questions? Contact Elsa Marie Castilleja at 505.277.0054 or scholarships@unm.edu

https://engineering.unm.edu/students/scholarships
JOB/RESEARCH OPPORTUNITIES

- **Need help with a Resume or Cover Letter?** We’ve got you covered. Please reach out to our very own Nada Abdelhack, our Job and Internship Placement Coordinator. Email: esscareers@unm.edu. Phone: 505-277-1403.

- Please visit ESS Internships and Jobs for a full list – some are available to all, regardless of citizenship status
  
  - Internal internship programs: [https://ess.unm.edu/programs/current-students/internships/index.html](https://ess.unm.edu/programs/current-students/internships/index.html)
  
  - External Jobs & Internships: [https://ess.unm.edu/resources/career.html](https://ess.unm.edu/resources/career.html)

This includes our **SPSP Internship Program**. Are you a Junior, Senior, or Graduate student in an Engineering or Computing field? Learn more at [https://goto.unm.edu/internships](https://goto.unm.edu/internships). Students are required to participate 12 weeks, 15 hours per week and will receive a stipend. Questions about the SPSP Internship Program? **Contact Nada Abdelhack at esscareers@unm.edu, 505-277-1403**

- **Interested in being a tutor for ESS?** Then you’re in luck! Join our team. For details and to apply, please visit [https://unmjobs.unm.edu](https://unmjobs.unm.edu) req25998.
Select Search for a Job. Then in the filters select type of position - student, campus - main, and you can use the key word of Tutor. It is the posting on 6/20/2023. This is the direct link, but sometimes they don't work well.

https://unm.csod.com/ux/ats/careersite/18/home/requisition/25998?c=unm&referralToken=zOxUIGBqAkOIpzlbdvEJpA

For more information or if you have problems find the posting, please reach out to Doug Williams at dougwms@unm.edu.

**Sandia National Lab’s Digital System Engineering is hiring**

*We are most interested in C.S, ECE, MechE, ChemE, who have relevant skillsets. Interested and qualified? Please communicate with Lorenza Friedrich directly at lfriedr@sandia.gov.*

**What Your Job Will Be Like**

Are you intrigued by Digital Engineering and Model Based Systems Engineering? Do you see the value in an integrated digital approach that uses authoritative sources of system data and models as a continuum across disciplines to support lifecycle activities? Are you passionate about Systems Engineering? Then join our dynamic team that is working on transforming Systems Engineering practices through model-based technologies and building the Digital Engineering Ecosystem of the future for Sandia!

On any given day, you may be called on to:

- Develop MBSE models in modeling tools such as Vitech GENESYS, MagicDraw, Cameo Systems Modeler, MATLAB System Composer, and/or Simulink
- Model weapon system architectures (Requirements, Behavior, Physical, Interface, Verification, Testing, Processes, etc.)
- Perform SE activities such as Concept of Operations Development, Requirements Analysis and Definition, Trade Studies, Design Analysis, Interface Design & Assessment, Integrated System Test Planning, System Verification & Validation, and Configuration Management
- Generate model-based Systems Engineering artifacts (reports, diagrams, tables, analysis dashboards, web interfaces, etc.) to support program deliverables.
- Develop code to enhance the application of these models and their tools interoperability
- Support integrating physical and virtual activities in a digital environment
· Apply critical thinking using a diverse set of skills and expertise
· Work across the Sandia Systems Engineering lifecycle in phases ranging from feasibility study to retirement
· Partner with multiple organizations and functional areas (Systems, Components, Qualification, Nuclear Safety, Use Control, Quality, JTAs, H&T Gear, Trainers, Requirements, Electrical, Mechanical, Modeling and Simulation and many more)
· Integrate MBSE models and processes into the broader Digital Engineering Ecosystem (DEE)
· Conduct technical reviews of models and modeling artifacts with SMEs to improve and validate the models
· Research and Develop advanced Systems Engineering modeling capabilities to support program needs

Candidates applying on this requisition may be interviewed and/or hired by one of several organizations at Sandia National Laboratories
Due to the nature of the work, the selected applicant must be able to work onsite

Required Qualifications
· Bachelor’s in Aerospace, Mechanical, Systems, or Electrical Engineering, Computer Science, or a relevant STEM field is required
· The ability to acquire and maintain a DOE Q level security clearance and SCI-level clearance, which may require a polygraph test

Desired Qualifications
· A Master’s degrees in a relevant STEM field, or 4 years of equivalent professional experience and/or achievements that demonstrate the knowledge, skills and ability to perform the duties of the job
· Experience with MBSE tools (Vitech GENESYS, MagicDraw, Cameo Systems Modeler, MATLAB System Composer, and/or Simulink) and languages (SysML)
· Experience with engineering design (taking an idea from concept through demonstration or delivery)
· Familiarity with requirements engineering concepts including elicitation, analysis, specification, and management
· Familiarity with NW Product Realization Teams, 6.X Product Realization process or Product Definition system (PRIME/IMS)
· Broad experience in applying analytical methods for Strategic Partnering Program (SPP) and Strategic Partnering Intelligence Program (SIPP) projects

About Our Team
The Nuclear Deterrence Model Based Systems Engineering (MBSE) department provides Systems Engineering expertise to Nuclear Deterrence programs seeking to implement MBSE on their programs. We enable customers to transform their SE processes utilizing model-based tools and approaches, helping them to unlock the potential that MBSE has to offer. We support a wide variety of programs funded by DOE/NNSA and DoD within the Nuclear Deterrence portfolio. The MBSE department is part of the Digital Engineering Transformation group. Our team is committed to nurturing a culture compatible with a broad group of people and perspectives in accordance with the changing makeup of the workforce. In support of this
vision, our center actively recruits applicants from diverse groups of backgrounds and fosters an inclusive community.
Join us and work towards your goals while making a difference!

UNM Events/News
Check back next week

Community Events/Opportunities
Check back next week

Previous Announcements

Other Opportunities and News for STEM Students:
SOE & STEM Student Org Meetings and Campus Events
Check back next week

Job/Research Opportunities/Scholarships
Check out the ESS website pages dedicated to jobs, internships, and scholarships for more.

- From NM EPSCoR
  Call for Papers: New Mexico Journal of Science (students in New Mexico)
The New Mexico Journal of Science is accepting papers for consideration for the 2023 issue. All papers are subject to a peer review process. There is no cost to authors for publishing and all previous papers can be open source accessed. Papers can be from a variety of scientific disciplines. All novel and previously unpublished work will be considered for publication.
  Best Consideration Deadline: July 15

UNM Events/News
Listed in Chronological Order
• **UNM Comes Out for Pride**
  Lots of UNM Pride Month activities going on!

- **Queering UNM History**
  June 28, 12 p.m., at SUB rooms Lobo A&B


• **WRC hosts summer “Thriving Thursdays”**
  We are so excited to begin the Self-Care Summer Series for UNM’s Mental Health Collaborative.
  Zoom ID: 985 6598 2195
• **SHAC Workshops:**

  NO CHARGE! RSVP: studentcounseling@unm.edu

  **Deadline to Register:** 1 Business Day Before Each Workshop

  For more Fall Workshops, see: SHAC Workshop Webpage

  Including...

  ![SHAC Workshops Poster](image)

  **Free confidential counseling**

  The UNM Counseling Program is excited to be offering free confidential counseling for children, adolescents, adults, couples, and families this semester on our UNM main campus clinic. This center is a training center for our advanced graduate students under supervision from our amazing UNM faculty and licensed professional counselors. These sessions will last 50 minutes and allow clients to be seen each week throughout the Fall semester. These sessions will be video recorded for supervision purposes and stored in a secure HIPAA compliant space. Appointments are available on Monday, Tuesday, and Wednesday all the way until 7 pm.

  Please call us at 505-277-7311 to complete a brief telephone screening to determine that our services are best for you. We look forward to hearing from you soon!
Food insecurity comes in many forms and impacts all aspects of your life

~30-40% of UNM students are housing/food insecure, and ~50% are first generation.

Please make sure you utilize the available resources like the Lobo Food Pantry and Student Guide tab resources: [http://goweb.unm.edu/studentguide/](http://goweb.unm.edu/studentguide/)

Community Events/Opportunities

*Check back next week*

We hope to see you around.
In Solidarity,

**Yadéeh E. Sawyer, Ph.D. (she/her/ella)**

_________________________________________
1st and 2nd Year Experience Manager
Student Success Coordinator

(UNM Alumni; Staff Council Grade 12 Rep)

Safe, Green, and Dream Zone Certified

UNM - Engineering Student Success Center - Room 2095

yadeeh@unm.edu

505.277.9151

Schedule a meeting with me through Bookings

Stay informed through our web app: succESS

**ESS Webpage:** ess.unm.edu
Tutoring | Scholarships | Mentoring | Undergraduate Research | EPICS | Internships and Co-Ops | Engineering Ambassador | Academic Success Workshops & Special Events for Engineering and Computer Science Students

**ESS social media** @UNMESSCenter

**Events and Workshops:** ess.unm.edu/events

**Semester Long Programs:**

- **Mentoring:**
  - Get a Mentor who is a STEM Professional
  - Be a Peer-Mentor
- **Research:**
  - Student Research Experience Program
  - EPICS (Engineering Projects in Community Service) @ UNM

Want to know about other STEM related opportunities? Join our listserv: UNM_STEM-L
ESS is located on the 2nd floor of the Centennial Engineering Center #2080

MSC01 1145; Building 112 (UNM Campus Map)