



# Consortium for Education and Research in Electronics for Extreme Environments

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### E3C Participant Commitment

### Letter of Understanding (LOU)

The Consortium for Education and Research in Electronics for Extreme Environments (E3C) establishes a sustainable and carefully designed ***collaborative research traineeship program*** that offers the next generation of underrepresented electrical engineers a strong background in electronics for extreme environments that will enable them to pursue careers at the Nuclear Security Enterprise (NSE).

The program is built on the synergies and existing collaborations of the E3C academic institutions and industrial members:

- The University of Texas at El Paso (UTEP) the University of New Mexico (UNM), and North Carolina Agricultural and Technical State University (NCAT)
- Kansas City National Security Campus (KCNSC), Sandia National Laboratories (SNL), and Los Alamos National Laboratory (LANL).

The overarching goal is to build a sustainable, long-term knowledge and technology transfer between EE students, faculty, and the National Security industry partners focused on Electronics for Extreme Environments.

**E3C Program activities** – Recruited students are expected to participate in the following activities:

- ❖ **Education and Training**– students will engage in revised and new courses co-created by academic partners, and support of senior design projects
- ❖ **Mentoring** – students will be assigned and engage with a faculty member and industrial partner mentors
- ❖ **Research** -- engage in Nuclear Security Enterprise relevant research in electronics for extreme environments such as:
  - Wide-bandgap semiconductors
  - 3D printed micro-electro-mechanical systems
  - Printed electronic materials
- ❖ **Professional development** – students are expected to attend a series of workshops, webinars and seminars supported by program and DoE National Laboratory Partners
- ❖ Keep an **e-Portfolio** documenting their reflections on some of the seminar/workshops and their participation in program activities
- ❖ Develop and maintain an **Individualized Student Development Plan (ISDP)** in collaboration with assigned faculty mentor
- ❖ **Outreach** to local schools, leagues, summer camps

**E3C Support** – Students will receive financial support for their participation in the program. They will also have the opportunity to engage in internships and externship sponsored by the DoE National Laboratory Partners.



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## Participant Information

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Name:

E-Mail Address:

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Degree Program:

Expected Graduation Date:

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**Please initial each item to confirm your understanding of the program requirements, benefits and agree with program expectations:**

- \_\_\_ 1. I confirm that I am eligible for this program
- Full time enrollment
  - U.S. citizen or permanent resident
- \_\_\_ 2. The program provides financial support at my home institution in the amount of \$15/hour for undergraduate students, \$1855.02/month for pre-masters graduate students, and \$2040.63/month for post-masters graduate students. Graduate students are eligible to receive up to \$4697/semester for tuition and \$3694/year for health insurance.
- \_\_\_ 3. To continue eligibility, I must maintain a minimum 3.0 GPA. If my GPA drops below that level, I understand that I could be put on probation and support may be suspended until I raise my GPA to 3.0 or higher.
- \_\_\_ 4. I will engage in research training activities under mentorship of a faculty member in the program.
- \_\_\_ 5. I will make my best effort to participate in the professional development, outreach and other activities sponsored by the program. NOTE: There is a reasonable expectation that participants may have conflicts with some of the activities. Please keep the program coordinator informed of any conflicts.
- \_\_\_ 6. I will collaborate with the E3C Program internal and external assessment as needed.
- \_\_\_ 7. If at any time, I cannot, or do not want, to continue, I will provide written notification to Dr. Miroslava Barua ([mbarua@utep.edu](mailto:mbarua@utep.edu)), Program Coordinator.
- \_\_\_ 8. I understand that I could be dismissed from the E3C program if I don't maintain an adequate level of participation in research and program activities, and do not meet GPA requirements.

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Student Full Name (Print)

Signature

Date

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E3C Consortium Director  
or Campus Coordinator

Signature

Date