

ASME STUDENT PROGRAMS UPDATE -4

An invitation to students and faculty to participate in ASME IAM3D, IDSC, SPDC, Student Section Awards and Grants, Petroleum Division, Energy and Storage, NASA Goddard Space Center scholarships, competitions/awards and internship opportunities..

ASME Innovative Additive Manufacturing Challenge

<http://go.asme.org/IAM3D>

Want to showcase your creativity as an individual competitor, or as part of 3 students team? Re-engineer existing products or create new designs that address a broad spectrum of industrial, manufacturing, and humanitarian challenges. Open to all mechanical Engineering, students from other engineering disciplines, Multidisciplinary, and Engineering Technology students.

Awards: Partial Travel Support to the finalists to compete in the finals at the ASME International Design Engineering Technical Conferences and Computers and Information in Engineering, and Additive Manufacturing 3D Conference (IDETC/CIE/AM3D) in Charlotte, North Carolina.

5 awards \$2,000 each; Faculty Advisor on the winning projects receives \$1,000 each and 5 years complimentary ASME membership.

Watch the IAM3D videos and check out 2015 winners, faculty advisors and their university affiliation at:

<https://www.asme.org/events/competitions/iam3d-challenge/winners>

Deadline: April 15, 2016.

Details on <http://go.asme.org/IAM3D>

ASME Innovative Design Simulation Challenge

Are you, or do you know any Aeronautical, Mechanical, Automotive, Civil, Electrical, Electronic, Communication, Instrumentation and Control, Astrophysics, Particle physics, Materials Science, Fluid mechanics, Climate science, Biology, Ecology, Economics, Medical, Sociology undergraduate or graduate student? All these, and many more disciplines in engineering, technology, humanities, and social sciences profusely use modelling and computer simulation tools and technologies to design, simulate and interpret information necessary to assess robustness of choices in the presence of uncertain information.

Demonstrate your skills in developing and deploying simulations or simulation frameworks and environments, using open, commercial or custom software to showcase designs and compete for the Best Overall Simulation and/or the best impact/utility simulation Awards.

Compete on your own or form a team of up to 3 students to showcase your design and simulation skills.

Awards: Partial travel support for the finalists to compete in the finals at the ASME International Design Engineering Technical Conferences and Computers and Information in Engineering, and Additive Manufacturing 3D Conference (IDETC/CIE/AM3D) in Charlotte, North Carolina

6 awards of \$2,000 each to the winners; Faculty advisor of the winning projects to receive \$1,000 and 5 years complimentary ASME membership.

Deadline: April 1, 2016

Details on <http://go.asme.org/IDSC>

Check out the 2015 finalists, winners and their stories at the following links:

<https://www.asme.org/events/competitions/idsc-challenge>

https://www.asme.org/about-asme/news/asme-news/additive-manufacturing-design-simulation#_ga=1.53662112.989736407.1442248072

2016 Student Professional Development Conference (SPDC)

Participate in industry seminars, Student Design Competition (SPDC) and the ASME Old Guard sponsored Communication skills competitions at any of the following 12 regional SPDCs held around the world. The competitions and conference sessions are open at a discounted rate to all ME students, with an ASME issued membership number.

Please register here for your country specific ASME membership rate, receive ASME membership number prior to registering for the SPDC at the discounted rate.

https://www.asme.org/wwwasmeorg/media/ResourceFiles/AboutASME/Membership/Student_Membership_Application.pdf

Top 2 winning SDC teams from each USA SPDC; and one winning SDC team from each overseas SPDC location receive partial travel support and are invited to compete at the finals in November at the ASME International Mechanical Engineering Conference and Exposition (IMECE). Similarly, a winner of the Old Guard Sponsored Verbal Competition from each of the 12 locations is provided travel support and invited to compete at the ASME IMECE.

Below are the 2016 ME Department and ASME supported SPDCs lead by the ASME student teams:

- **February**

UET-Taxila, Pakistan

<http://web.uettaxila.edu.pk/uet/>

- **March**

Georgia Tech – GA, USA

<http://www.me.gatech.edu/>

Vellore Institute of Technology – India

<http://www.vit.ac.in/>

American University Cairo, Egypt

<http://www.aucegypt.edu/sse/meng/Pages/default.aspx>

- **April**

Rutgers University – NJ, USA

<http://mae.rutgers.edu/>

Northern Arizona University- AZ, USA

<http://nau.edu/cefns/engineering/mechanical/>

University of Minnesota – Mankato – MN, USA

<http://cset.mnsu.edu/mece/me/>

Oral Roberts University, Tulsa, OK, USA

http://www.oru.edu/academics/college_of_science_and_engineering/

University of Puerto Rico- PR

<http://engineering.uprm.edu/inme/>

Instituto Tecnológico de Ciudad Juarez, Mexico

<http://www.tecnm.mx/>

American University Beirut – Lebanon

<http://www.aub.edu.lb/fea/me/Pages/default.aspx>

- **May**

Yeditepe University, Istanbul, Turkey

http://me.yeditepe.edu.tr/default_en.aspx

For SPDC dates at the above locations, please visit:

<https://www.asme.org/events/student-professional-development-conference-spdc/spdc-venues>

2016 SDC details at: <https://www.asme.org/events/competitions/student-design-competition>

2016 Old Guard sponsored competitions at: <https://www.asme.org/events/competitions/old-guard-competitions>

Stay tuned for Registration details.

Seeking Expression of interest

- Interested in hosting 2017 or 2018 SPDC at your university, with your Department Head/Chair approval, please do get in touch with us at spdc@asme.org

Student Section Grants & Awards

24 Outstanding Start up section grants, 2 Outstanding Humanitarian Grants; 22 Outstanding Student Section and Frugal innovation Awards

For 2015 Student Section awards and Grants winners:

https://community.asme.org/student_section_enterprise/groupannouncements.aspx

2016 Student Section Awards and Grants Deadline: May 30, 2016

1. **Outstanding Startup Student Section Grants**

The purpose of this competitive grant is to provide seed money to the selected new student sections. Student Sections Enterprise will match the funds provided by the Student Section's Mechanical Engineering/Mechanical Engineering Technology Department to a maximum amount of \$500 for up to twenty-four (24) selected new, startup student sections.

Apply at: <http://asme.submittable.com/submit/47386>

Note: (All petitions accompanied by an Annual plan of activities, and expected impact, received after May 2015 and through May 2016 deadline are automatically entered for the Outstanding Startup Student Selection Grant). The winners are expected to provide a Report on the activities and the impact.

2. **Outstanding Student Section - Multidisciplinary Humanitarian projects Grants**

Two (2) Grants of \$3,500 each are provided to select Student Sections to support an engineering-based humanitarian proposal outlining an innovative and impactful multidisciplinary project aligned with ASME strategy.

Apply at: <http://asme.submittable.com/submit/47389>

Note: If your section is engaged in activities to improve the quality of life in the community, jointly with the community, or in collaboration with other student sections/regions anywhere consider applying to compete for the grant. Similarly, if your Senior Design Project is focused on humanitarian issues, consider applying and compete for the Grant.

For requirements, please refer to the Student Section Enterprise link below.

3. **Outstanding New Student Section < 3 years Award**

Six (6) awards of \$500 each to recognize new Student Sections that have demonstrated outstanding leadership, positive impact on students' professional development and sustainable growth for the future.

Apply at: <http://asme.submittable.com/submit/47385>

4. **Outstanding Student Section Award > 3 years Award**

Ten (10) awards of \$1,000 each to recognize Student Sections that have shown demonstrable leadership in developing and sharing content as well as the best practices with other student sections

Apply at: <http://asme.submittable.com/submit/47384>

5. **Student Section Project Costs Award**

SIX (6) project cost based awards of \$500 to recognize and encourage creativity, resourcefulness and innovation for producing the best content/ most effective impact.

Apply at: <http://asme.submittable.com/submit/47388>

For details on the 26 new grants and 22 new awards please visit https://community.asme.org/student_section_enterprise/default.aspx

ASME- Petroleum Division Scholarship Awards

A total of \$140,000 each year to students interested in any phase of the Petroleum Industry including Drilling, Completions, Facilities, Pipe Lines, Rigs, Operations, Materials, Equipment Manufacturing, Plant Design and Operation, Maintenance, Environmental Protection and Innovations. Apply at

https://community.asme.org/petroleum_division/w/wiki/8422.scholarships.aspx

Energy Conversion and Storage Student Competitions And Awards

Students interested in participating in technical paper/poster competitions, for scholarships and awards coordinated by the ASME Energy Conversion and Storage Segment, apply at:

https://community.asme.org/energy_conversion_and_storage_segment/m/mediagallery1/8206/download.aspx

NASA Goddard Space Flight Center--GSFC, NY

NASA GSFC Office of Education is currently seeking Undergraduate students to participate in the NASA GISS Climate Change Research Initiative (CCRI) summer internship program located at the NASA Goddard Institute for Space Studies in New York City.

Deadline for applications is March 1st, 2016. Applicants must be US citizens and should reside within 50 miles of the Institute.

Undergraduate applicants must use the NASA OSSI website to apply to apply. Simply select "Goddard Institute for Space Studies" in the Search opportunity section to review specific research opportunities. Applications are evaluated upon receipt and applicants are encouraged to apply early.

<https://intern.nasa.gov/ossi/web/public/guest/searchOpps/>

Paid Summer 2016 Undergraduate Research Placements:

Over 800 programs -- NSF REU, NASA and other paid summer research opportunities for undergrads

<http://www.pathwaystoscience.org/undergrads.aspx>

For Financial Support in Graduate School:

Fellowships and graduate programs in a wide variety of STEM disciplines:

<http://www.pathwaystoscience.org/grad.aspx>

For tips on applying and associated resources:

<http://www.pathwaystoscience.org/toolbox.aspx>

For opportunities specifically in the Ocean Sciences:

<http://www.pathwaystoscience.org/oceanscience.aspx>

For opportunities specifically in Engineering:

<http://www.pathwaystoscience.org/engineering.aspx>

Look forward to your participation in the ASME Student programs. Any questions, please get in touch with me at rangim@asme.org

Best Regards,

Najib Metni - Chair ASME Board on Student Programs – Notre Dame University, Lebanon

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