

# DOE Office of Science Graduate Student Research (SCGSR) Program

**The SCGSR Program provides supplemental awards to outstanding graduate students to spend 3 to 12 months conducting part of their doctoral thesis/dissertation research at a host DOE national laboratory/facility in collaboration with a DOE laboratory scientist.**

- Graduate students must apply online through the online application system.
- The application requires a research proposal and letters of support from both the graduate student's thesis advisor and the collaborating DOE laboratory scientist.
- Student's research and proposed SCGSR project must be aligned with one of the identified SCGSR priority research areas defined by the SC Program Offices and specified in the solicitation.
- Applications proposing to use an SC user facility must apply for user facility time separately.

## **Award Benefits:**

- A monthly stipend of up to \$3,000/month for general living expenses
- Reimbursement of inbound/outbound traveling expenses to/from the host DOE laboratory/facility of up to \$2,000

(Award payments are provided directly to the student)

## **Eligibility:**

- U.S. Citizen or Lawful Permanent Resident
- Qualified graduate program & Ph.D. Candidacy
- Graduate research aligned with an SCGSR priority research area
- Establishment of a collaborating DOE laboratory scientist at the time of application

**2022 Solicitation 2 – Application Due November 9, 2022, 5:00 PM ET**

Full details, requirements, FAQs, and link to application at: <https://science.osti.gov/wdts/scgsr/>



U.S. DEPARTMENT OF  
**ENERGY**

Office of  
Science

**Program Contact :** [sc.scgsr@science.doe.gov](mailto:sc.scgsr@science.doe.gov)

# Key Dates for 2021 - 2023

At the submission deadline (shown in red), the online application system will close after which no additional materials will be accepted.

**The online application system closes at 5:00 PM Eastern Time.**

	2021 Solicitation 2 (Ongoing)	2022 Solicitation 1 (Under Review)	2022 Solicitation 2 (Upcoming)
On-line Application Opens	August 19, 2021	February 9, 2022	August 17, 2022
<b>Applications Due (including all letters of support)</b>	<b>November 10, 2021</b>	<b>May 4, 2022</b>	<b>November 9, 2022</b>
Offer Notification Period <i>Begins on or around</i>	April/May 2022	September 8 –21, 2022	April 3 – 17, 2023
<i>Earliest*</i> Start Date for Proposed Project Periods	June 13, 2022	November 14, 2022	June 12, 2023
<i>Latest**</i> Start Date for Proposed Project Periods	October 3, 2022	March 6, 2023	October 2, 2023

*\*Proposed project periods may not begin before this date, and may be 3 to 12 consecutive months in duration.*

*\*\* Proposed project period must begin no later than this date, and may be 3 to 12 consecutive months in duration.*

# SCGSR Program: Priority Research Areas for 2022 Solicitation 2

<https://science.osti.gov/wdts/scgsr/how-to-apply/priority-sc-research-areas/>

## Convergence Research Topical Areas

- (a) Microelectronics (ASCR, BES, HEP, and NP)
- (b) Data Science (ASCR, BES, BER, FES, HEP, and NP)
- (c) Conservation Laws and Symmetries (HEP and NP)
- (d) Accelerator Science (ASCR, BES, BER, FES, HEP, NP, DOE IP, and ARDAP)

## Advanced Scientific Computing Research (ASCR)

- (a) Applied Mathematics
- (b) Computer Science
- (c) Computational Partnerships
- (d) Advanced Computing Technologies

## Basic Energy Sciences (BES)

- (a) Accelerator and Detector R&D
- (b) Basic Geosciences
- (c) Basic Science for Advanced Manufacturing
- (d) Basic Science for Clean Energy and Decarbonization
- (e) Chemical and Materials Sciences for Quantum Information Science (QIS)
- (f) Data and Computational Sciences for Materials and Chemical Sciences
- (g) Fundamental Electrochemistry for Chemical and Materials Sciences
- (h) Gas Phase Chemical Physics
- (i) Instruments R&D for Neutron and X-ray Facilities
- (j) Instruments and Techniques R&D for Electron and Scanning Probe Microscopy
- (k) Materials Sciences and Chemistry for Microelectronics
- (l) Nuclear Chemistry and Radiochemical Separations
- (m) Radiation Effects in Materials and Chemistry

## Biological and Environmental Research (BER)

- (a) Computational Biology and Bioinformatics
- (b) Biomolecular Characterization and Imaging Science
- (c) Plant Science for Sustainable Bioenergy
- (d) Environmental Microbiology
- (e) Environmental System Science
- (f) Atmospheric System Research

- (g) Earth System Model Development
- (h) Regional and Global Model and Analysis

## Fusion Energy Sciences (FES)

- (a) Burning Plasma Science & Enabling Technologies
- (b) Discovery Plasma Science

## High Energy Physics (HEP)

- (a) Theoretical and Computational Research in High Energy Physics
- (b) Advanced Accelerator and Advanced Detector Technology Research and Development in High Energy Physics
- (c) Experimental Research in High Energy Physics

## Nuclear Physics (NP)

- (a) Medium Energy Nuclear Physics
- (b) Heavy Ion Nuclear Physics
- (c) Fundamental Symmetries
- (d) Nuclear Structure and Nuclear Astrophysics
- (e) Nuclear Theory
- (f) Nuclear Data and Nuclear Theory Computing
- (g) Accelerator Research and Development for Current and Future Nuclear Physics Facilities
- (h) Quantum Information Science for Experimental and Computational Nuclear Physics
- (i) Artificial Intelligence and Machine Learning for Nuclear Physics
- (j) Advanced Detector Technology Research and Development in Nuclear Physics

## Isotope R&D and Production (DOE IP)

- (a) Isotope Production Research
- (b) Isotope Processing, Purification, Separations and Radiochemical Synthesis
- (c) Biological Tracers and Imaging
- (d) Isotope Enrichment Technology

## Accelerator R&D and Production (ARDAP)

- (a) Accelerator Technology Research
- (b) Accelerator Technology Development

# Merit Review Criteria

## 1. Scientific and/or Technical Merit of the Proposed Research\*

- a. Is the proposed research well-conceived, and does it demonstrate a clear understanding of the scientific and technical challenges involved?
- b. Is the proposed method and approach for the proposed research appropriate?
- c. Is the applicant (graduate student) sufficiently well prepared to conduct the proposed research?
- d. Are the DOE laboratory resources adequate? If applicable, has the necessary access to a scientific user facility been secured by the DOE laboratory collaborating scientist?

## 2. Relevance of the Proposed Research\* to Graduate Thesis Research and Training

- a. Does the proposed research have the potential to make a significant contribution to the applicant's (graduate student's) thesis research project?
- b. Will the proposed research enhance the applicant's graduate training and research skills?

\* Research proposed is explicitly the scope of the research proposed to be conducted by the applicant (graduate student) at the DOE Laboratory/Facility.



# Application Requirements

All applications to the SCGSR program must be completed through the online application system. Only complete applications submitted by the deadline will be considered.

## A Complete SCGSR Application includes:

- All required fields of the Online Application System, *including*:
  - Contact information of the graduate applicant, primary graduate thesis advisor, and collaborating DOE laboratory scientist
  - Academic information, including undergraduate and graduate study
  - Professional information, including scientific publications and awards, research experiences, etc.
  - Alignment of proposed research to one of the SCGSR Priority Research Areas  
<https://science.osti.gov/wdts/scgsr/how-to-apply/priority-sc-research-areas/>
- A **SCGSR Research Proposal** (3-page maximum including references, full guidance provided online).  
<https://science.osti.gov/wdts/scgsr/how-to-apply/research-proposal-guidelines/>
- Official graduate transcripts and proof of Ph.D. Candidacy.  
<https://science.osti.gov/wdts/scgsr/how-to-apply/graduate-transcripts/>
- Two Letters of Support, one by primary graduate thesis advisor, and the other by collaborating DOE laboratory scientist. <https://science.osti.gov/wdts/scgsr/how-to-apply/Letters-of-Support/>

