

**Opportunity Title:** Predictive Systems Biology for Circular and Sustainable Economies

**Opportunity Reference Code:** ORIUT-PredictiveSystemsBiology-2020

**Organization** UT-ORII

**Reference Code** ORIUT-PredictiveSystemsBiology-2020

**How to Apply** **Apply Today! Selection and Review:**

- University of Tennessee researchers will review applications on a rolling basis. Be sure to apply early to be considered for one of the prestigious slots.
- Internships are expected to be awarded on February 15, 2021
- Duration is 10 weeks from May 24-July 30, 2021

**Description** **Are you a current undergrad looking for a prestigious research opportunity? Do you want to gain hands-on experience at a national laboratory?**

The Oak Ridge Institute at The University of Tennessee is seeking applications from undergraduate students currently enrolled in colleges and universities across the US who are interested in participating in its Science Alliance Student Mentoring and Research Training (SMaRT) Program. Students who will be rising sophomores, juniors and seniors in fall of 2021 are eligible to apply. This prominent program will select 30 qualified candidates to participate in this 10-week summer program scheduled for May 24 until July 30, 2021. As a selected intern, you will receive a funded internship, including stipends, housing and an allowance for travel to and from Knoxville, TN. This program will focus on four interdisciplinary areas:

1. **Electrochemical Energy Systems**, Apply at: <https://zintellect.com/Opportunity/Details/ORIUT-ElectrochemicalEnergy-2020>
2. **Advanced Science and Engineering of Materials and Manufacturing**; Apply at: <https://zintellect.com/Opportunity/Details/ORIUT-AdvancedScience-2020>
3. **Predictive Systems Biology for Circular and Sustainable Economies**; Apply at: <https://zintellect.com/Opportunity/Details/ORIUT-PredictiveSystemsBiology-2020>
4. **Autonomous, Smart, Secure and Resilient Energy Systems**: Apply at: <https://zintellect.com/Opportunity/Details/ORIUT-AutonomousEnergy-2020>

\*Data science and engineering threads will be woven through each of these four areas.


You will engage in interdisciplinary research jointly administered by some of the nation's top researchers from The University of Tennessee and Oak Ridge National Laboratory. Dedicated graduate student mentors will work closely with you, and through focused professional development activities you will prepare materials necessary to apply for future opportunities. This summer program will build your network, build your resume and prepare you for the next steps in your academic and professional career.



**ORAU Pathfinder**



Whether you are just starting your career or already at a senior level, ORAU offers internships, fellowships, research opportunities, and contract positions that can provide you with invaluable experience. Download the ORAU Pathfinder mobile app and find the right opportunity to propel you along your career path!

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**About the Oak Ridge Institute at The University of Tennessee (ORI@UT):**

The University of Tennessee (UT) and Oak Ridge National Laboratory (ORNL) have launched the ORI@UT to foster interdisciplinary research and education. The primary goals of the institute are to: attract talent to East Tennessee and to develop a world-class STEM workforce that will, among other things, create and lead the industries of the future. ORI@UT brings together faculty, research scientists, students, and ORNL researchers to create a collaborative environment in which interdisciplinary discovery and creativity flourish.

**Benefits to you as a SMaRT Intern:**

The interdisciplinary atmosphere provided at the ORI@UT will expose you to team science, an increasingly important platform for research. As an intern, you will also gain first-hand research experience in emerging fields (e.g. quantum information sciences and data sciences) while working with state-of-the-art research instruments (e.g. 3D printers of metals and polymers). Together, these experiences will help prepare you for exciting and rewarding careers. Interns will prepare CVs, personal statements for future opportunities, as well as short research presentations and scientific posters that can be presented at conferences. Graduate student mentors will work closely with SMaRT interns, and will be available to share their graduate school experiences. Overall, participation in the SMaRT Program will help you understand and evaluate their future career options, including in academia, national laboratories, and in the industries of the future.

**Stipends, Housing and Travel:**

- The stipend will be \$694 per week.
- University of TN on-campus housing will be provided. Housing will be single room.
- Travel will be reimbursed for inbound and outbound expenses up to \$1,000 for participants who live more than fifty miles, one-way, from the assigned hosting site.

**Have questions about the program or how to stand out as a top candidate?** Please email our recruiter at [brian.rose@ornl.gov](mailto:brian.rose@ornl.gov).

**To apply, be sure to have the following:**

- Statement of Interest/Personal Statement (explaining goals, experiences, and skills relevant to the SMaRT Program)
- Resume or CV (PDF)
- Transcripts/Academic Records
  - Unofficial transcripts or copies of the student academic records printed by the applicant or by academic advisors from internal institutional systems may be submitted.

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- Transcripts/Academic Records must include name of the academic institution, name of the student, and all completed/in progress coursework.
- Transcripts/Academic Records must show the equivalent of at least one year of full-time post-secondary school attendance prior to Summer 2021.
- Two Letters of Recommendation are required. The Zintellect system will send notifications to referees on your behalf when you supply names and email addresses during the application process.

**Eligibility  
Requirements**

- **Citizenship:** LPR or U.S. Citizen
- **Degree:** Any degree .
- **Discipline(s):**
  - **Chemistry and Materials Sciences** ([12](#) )
  - **Computer, Information, and Data Sciences** ([17](#) )
  - **Earth and Geosciences** ([21](#) )
  - **Engineering** ([27](#) )
  - **Environmental and Marine Sciences** ([14](#) )
  - **Life Health and Medical Sciences** ([46](#) )
  - **Mathematics and Statistics** ([10](#) )
  - **Physics** ([16](#) )
  - **Science & Engineering-related** ([1](#) )
  - **Social and Behavioral Sciences** ([28](#) )