

Table 1: REU / Experiential Learning Opportunities (sorted by deadline)

School / Institute	Location	Dates	Deadline	Topic(s) and Links
University of Waterloo	Waterloo, ON	May 25–Jun 5	Jan 7	Undergraduate School on Experimental Quantum Information Processing (USEQIP). Can take international students. Link: Program site .
Department of Energy	Varies	???–???	Jan 7	SULI (Science Undergraduate Laboratory Internships). Can take graduating seniors. Link: Program site .
Iowa State Univ. (SIMCODES REU)	Ames, IA	Jun 1–Aug 9	Jan 10	NSF REU focused on machine learning for enzymatic simulations. Open to U.S. citizens and permanent residents; prior research experience not required. Links: Program site ; NSF ETAP Listing .
Caltech	Pasadena, CA	Jun 16–Aug 21	Jan 11	Caltech LIGO Summer Undergraduate Research Fellowships (SURF) program. Projects include topics such as data analysis. Link: Program site .
Cold Spring Harbor Laboratory	Cold Spring Harbor, NY	Jun 8–Aug 8	Jan 15	Bioinformatics and Computational Neuroscience Summer Undergraduate Program. Can take international students. Link: Program site .
Fermi National Accelerator Laboratory	Batavia, IL	May 26–Aug 14	Jan 15	URA-Fermilab Undergraduate Research Summer Internship (FURSI). Link: Program site .
IRES: Digital Twin Technologies (Supply Chain)	Louisville, KY / Hamburg, Germany	Jun 1–Jul 18	Jan 15	International research experience applying digital twin simulations to logistics systems, port operations, and global supply chain optimization. Links: Program site ; NSF ETAP Listing .
Northwestern University	Evanston, IL	Jun 14–Aug 21	Jan 26	Synthetic biology: research at the interface of biology, engineering, chemistry, math, and physics. Link: Program site .
Wake Forest University	Winston-Salem, NC	May 26–Jul 31	Jan 30	Biomedical Engineering and Informatics Summer Research Program. Link: Program site .
Northwestern University (CIERA)	Evanston, IL	Jun 22–Aug 21	Jan 30	Astrophysics research through CIERA. Link: Program site .
IRES: Human-Mobile Robot Operations	Passau, Germany	Jun 1–Jul 31	Jan 30	International research program focused on collaborative human-mobile robot systems, AI-driven automation, and optimization for next-generation manufacturing and supply chains. Link: NSF ETAP Listing .
Arizona State University	Tempe, AZ	May 26–Jul 18	Jan 31	Quantitative Research in the Life and Social Sciences Program (QRLSSP). Link: Program site .
Aalto University	Helsinki, Finland	Flexible	Jan 31	12-week projects with flexible timing within each research group; positions in theoretical CS, machine learning, physics, etc. Link: Program site .
IAS / Park City Mathematics Institute	Park City, UT	Jun 28–Jul 8	Jan 31	Undergraduate Summer School: “Knotted Surfaces in Four-Manifolds.” Can take students who have just graduated and international students (without stipend).

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School / Institute	Location	Dates	Deadline	Topic(s) and Links
				Links: MathPrograms listing ; PCMI program page .
Morton Arboretum	Lisle, IL	May 26–Jul 31	Jan 31	NSF REU focused on tree-based research in ecology, evolution, conservation, urban forestry, and climate change science. Links: Program site ; NSF ETAP Listing .
Icahn School of Medicine	New York, NY	Jun 1–Aug 7	Feb 1	Summer Research Training Program in Biomedical Big Data Science. Topics include data harmonization, machine learning, cloud computing, and visualization. Link: Program site .
Rosetta Commons REU	Varies	Jun 1–Aug 7	Feb 1	<i>Pending renewal of funding.</i> REU using Rosetta Commons for computational modeling and analysis of protein structures. Link: Program site .
University of Minnesota – Twin Cities	Minneapolis, MN	Jun 1–Aug 7	Feb 1	Equitable Data Science in Adolescent Development. Link: Program site .
Indiana University	Bloomington, IN	TBA	Feb 1	Summer REU in mathematics; specific topics TBA. Link: Program site .
University of Charlotte	Charlotte, NC	May 26–Jul 24	Feb 1	REU in “Smart and Secure Future Computing.” Link: Program site .
University of Texas at San Antonio	San Antonio, TX	Jun 1–Aug 7	Feb 1	NSF REU focused on artificial intelligence, robotics, brain-computer interfaces, human-robot collaboration, and smart manufacturing systems. Links: Program site ; NSF ETAP Listing .
Clemson University (H-CORE REU)	Clemson, SC	May 18–Jul 25	Feb 1	Human-centered operations research integrating human factors, optimization, networks, healthcare, and AI-driven systems. Links: Program site ; NSF ETAP Listing .
California State University, Chico	Chico, CA	Jun 15–Jul 31	Feb 2	Projects in commutative algebra and combinatorics; number theory and graph theory. Link: Program site .
Williams College	Williamstown, MA	Jun 16–Aug 14	Feb 2	SMALL REU with projects in tiling theory, network dynamics, number theory and probability, and ergodic theory. Links: Program overview ; Full list ; Modeling Network Dynamics ; Number Theory & Probability ; Tiling Theory ; Ergodic Theory .
Leadership Alliance	Varies	Varies	Feb 3	Summer Research Early Identification Program (SR-EIP) with paid research internships and mentoring, aimed particularly at underrepresented groups. Link: Program site .
Brigham Young University	Provo, UT	Jun 1–Aug 7	Feb 3	Physics and astronomy; some projects involve mathematical modeling and computation. Link: Program site .
IST Austria	Austria	Varies	Feb 5	Summer internship program for bachelor’s and master’s students in mathematics, computer science, and the natural sciences. Link: Program site .
University of Chicago	Chicago, IL	Jun 15–Aug 7	Feb 6	REU in a wide variety of advanced mathematics topics. Link: Program site .

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School / Institute	Location	Dates	Deadline	Topic(s) and Links
University of Southern Mississippi	Hattiesburg, MS	May 31–Jul 25	Feb 6	Deep learning and applied mathematics for biological and physical dynamical systems, neural networks, and modeling. Links: Program site ; NSF ETAP Listing .
Auburn University (CASE REU)	Auburn, AL	May 18–Jul 24	Feb 9	Multidisciplinary STEM research with cross-disciplinary faculty teams, laboratory and field projects, and professional development. Link: Program site .
EDGE (University of Waterloo)	Waterloo, ON	TBA	Feb 13	Program aimed at women or nonbinary mathematicians transitioning into PhD programs. Links: Program site ; MathPrograms listing .
ICERM (Brown University)	Providence, RI	Jun 8–Jul 31	Feb 13	“Pure and Applied Mathematical Models” with projects in epidemiology, graph theory, and combinatorics. Links: MathPrograms listing ; ICERM program page .
University of Minnesota – Twin Cities	Minneapolis, MN	Jun 15–Aug 7	Feb 13	REU in algebra, combinatorics, and representation theory (contingent upon funding; open to some student visa holders). Links: Program site ; MathPrograms listing .
North Carolina State University (DRUMS)	Raleigh, NC	May 24–Jul 31	Feb 14	Directed Research for Undergraduates in Mathematics and Statistics (DRUMS); applications in climate, materials, medicine, and more using PDEs, probability, and machine learning. Links: Program site ; MathPrograms listing .
Penn State	State College, PA	May 26–Jul 31	Feb 14	Sustainable Physics and Materials REU: From subatomic phenomena to cosmology. Links: Program site ; NSF ETAP Listing .
Baruch College (CUNY)	New York, NY	Jun 8–Jul 31	Feb 15	Combinatorics, discrete probability, theoretical computer science, and related topics. Link: Program site .
Oregon State University	Corvallis, OR	Jun 15–Aug 14	Feb 15	Summer research internships in geology, oceanography, and atmospheric and climate science. Link: Program site .
MSRI-UP	Berkeley, CA	TBA	Feb 15	Thematic focus: numerical methods for differential equations (MSRI-UP 2026). Links: MSRI-UP main page ; 2026 program page ; NSF ETAP Listing .
California State University, Pomona	Pomona, CA	May 27–Jul 31	Feb 15	Computational and Applied Mathematics Program (CAMP); example projects in delivery scheduling, Gaussian processes, and sound synthesis. Link: Program site .
Carnegie Mellon University	Pittsburgh, PA	May 27–Jul 3	Feb 15	Research on algorithms for sampling from high-dimensional probability distributions with applications in machine learning and scientific computing. Links: Program site ; MathPrograms listing .
Mississippi State University	Mississippi State, MS	May 26–Jul 31	Feb 15	Computational methods and high-performance computing applied to materials science across math, physics, and engineering. Links: Program site ; NSF ETAP Listing .
Iowa State University	Ames, IA	Jun 15–Aug 8	Feb 16	Combinatorics and temporal logic; can take 1–2 non-U.S. citizens. Link: Program site .
James Madison University	Harrisonburg, VA	May 26–Aug 1	Feb 20	REU projects in data science, topology, and mathematics education. Links: Program site ; NSF ETAP Listing .

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School / Institute	Location	Dates	Deadline	Topic(s) and Links
James Madison University	Harrisonburg, VA	May 26–Aug 1	Feb 20	Research in data science, topology, persistent homology, and mathematics education for undergraduates. Links: Program site ; NSF ETAP Listing .
NASA Internship Program	Varies	Varies	Feb 27	Internship opportunities in STEM; some roles open to international students depending on country of origin. Link: Program site .
Texas State University, San Marcos	San Marcos, TX	May 11–Jul 17	Feb 28	Algebra, combinatorics, and statistics projects, including prime graphs of solvable groups and deep ReLU hypothesis testing. Links: Program site ; NSF ETAP listing .
Michigan State University	East Lansing, MI	Mid-May–Early July	Mar 1	Summer Undergraduate Research Institute in Experimental Mathematics (SURIEM); three research topics including optimal transport. Link: Program site .
University of Maryland	College Park, MD	Jun 1–Aug 14	Mar 1	Combinatorics, Algorithms, and AI for Real Problems (CAAR). <i>Pending funding</i> . Links: Program site ; NSF ETAP listing .
Marshall University	Huntington, WV	TBA	Mar 1	Projects in algebraic graph theory, analytic capacity, and combinatorial and algebraic properties of numerical semigroup rings. Link: Program site .
University of Nebraska at Omaha (REU@UNO)	Omaha, NE	May 20–Jul 22	Mar 16	Research in security, privacy, AI, and machine learning for mobile sensing and Internet of Things systems. Links: Program site ; NSF ETAP Listing .
University of South Carolina	Columbia, SC	May 27–Jul 28	Mar 31	Hands-on research in quantum computing, quantum machine learning, and quantum software development for undergraduates. Link: NSF ETAP Listing .
Polymath Jr	Online (worldwide)	Jun 16–Aug 10	Apr 1	Online collaborative undergraduate research program inspired by the Polymath Project, with large mentored groups tackling open problems. Link: Program site .
NSA Summer Program	Varies	Varies	Oct 15	Must be a U.S. citizen and able to obtain a security clearance. Multiple different summer programs open to undergraduates. Link: Student programs page .
University of Texas at Austin	Austin, TX	May 30–Aug 1	Rolling (apply early)	Cyberinfrastructure Research for Societal Advancement (TACC REU). Link: Program site .
University of Iowa	Iowa City, IA	Jun 1–Jul 17	Rolling (apply early)	Iowa Summer Institute in Biostatistics (ISIB). Link: Program site .
IOL Lab	Berlin, GER	Flexible	Rolling (apply early)	Theoretical optimization with applications in machine learning, operations research, and AI; can host international students and graduating seniors. Link: Openings page .
Boston University	Boston, MA	Jun 8–Aug 21	Rolling (apply early)	Summer Institute in Biostatistics and Data Science (SIBS); in-person portion runs roughly Jun 8–Jul 10.

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School / Institute	Location	Dates	Deadline	Topic(s) and Links
				Link: Program site .
Duke University (PRUV)	Durham, NC	Summer (6 weeks)	Rolling (no formal deadline)	One-on-one undergraduate research fellowship in the mathematical sciences for current Duke students, often leading to an independent study or senior thesis. Links: Program site ; MathPrograms listing .
Sensors Directorate Internship Program (SDIP)	Dayton, OH	Early May–Early August	Rolling (starting in Dec)	Topics include artificial intelligence, high performance computing, and other math-related projects. Link: Program site .
Santa Fe Institute	Santa Fe, NM	TBA	TBA	Complexity science program where students study real-world complex systems using interdisciplinary theory, data, and methods. Link: Program site .
Fields Institute	Toronto, Ontario	Jun 1–Jul 31	TBA	Undergraduate research program at the Fields Institute; specific topics TBA. Link: Program site .
NIST	Varies	Varies	TBA	SURF (Summer Undergraduate Research Fellowship) across multiple NIST laboratories. Link: Program site .
California State University, San Bernardino	San Bernardino, CA	TBA	TBA	REU in knot theory or differential geometry. <i>Pending NSF funding</i> . Link: Program site .
Columbia University	New York, NY	TBA	TBA	Summer Training Institute in Biostatistics and Data Science at Columbia (SIBS). Link: Program site .
DIMACS / Rutgers	New Brunswick, NJ	TBA	TBA	DIMACS REU in discrete mathematics and theoretical computer science; specific topics vary by year. Link: Program site .
Georgia Institute of Technology	Atlanta, GA	Jun–Jul (8 weeks)	TBA (Mid February last year)	Undergraduate research in algebra, dynamics, graph theory, machine learning, and related areas with faculty mentors. Link: Program site .
Institute for Advanced Study	Princeton, NJ	May 17–May 22	TBA	WAM (Women and Mathematics) program: “Waves, Wave Packets, and Their Interactions.” Link: Program site .
Michigan State University	East Lansing, MI	May 18–Jul 10	TBA	Summer Undergraduate Research Institute in Experimental Mathematics (SURIEM). Link: Program site .
Michigan State University (SURIEM)	East Lansing, MI	May 18–Jul 10 (Tentative; TBA)	TBA	Experimental mathematics REU with projects in conjecture testing, simulations, spectral theory, random matrices, and graph-based games. Link: Program site .
Michigan State University (ACRES REU)	East Lansing, MI	May 18–Jul 24	TBA	Computational and data science REU focused on high-performance computing, algorithms, modeling, AI, and scientific software development. Link: Program site .

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RIPS (IPAM, Los Angeles)	Los Angeles, CA	Jun 22–Aug 21	TBA	Research in Industrial Projects for Students (RIPS); industry-sponsored research problems in Los Angeles. Link: Program site .
RIPS-Singapore (IPAM)	Singapore	May 18–Jul 17	TBA	Research in Industrial Projects for Students in Singapore; industry-sponsored projects, can take graduating seniors. Link: Program site .
SIAM–Simons Undergraduate Summer Research Program	5 sites (see website)	TBA	TBA	Projects vary by site; detailed project descriptions are available on the program website. Link: Program site .
Worcester Polytechnic Institute	Worcester, MA	May 26–Aug 1	TBA	Applied Artificial Intelligence for Advanced Applications. Link: Program site .
Worcester Polytechnic Institute	Worcester, MA	May 26–Aug 1	TBA	Applied Artificial Intelligence for Advanced Applications. Link: Program site .
Yale School of Public Health	New Haven, CT	TBA	TBA	Big Data Summer Immersion at Yale (SIBS): “Transforming Analytical Learning in the Era of Big Data.” Links: Program site ; BDSY site .

Additional Things

The following are some programs I couldn’t find anything about being renewed for 2026, but I believe are likely to. Keep an eye out for information on these:

- **University of Michigan–Dearborn — REU in Mathematical Analysis and Applications**
Focus: Mathematical analysis and applications, including PDEs, dynamical systems, and numerical methods.
Status: A 2025 program is posted. The site has run for many years, making a 2026 version likely, but no formal announcement has been made yet.
- **Illinois Institute of Technology — SURE (Summer Undergraduate Research Experience)**
Focus: Data science, computational mathematics, and computer science projects.
Status: A Summer 2025 program is active. This is a campus-supported program rather than a classic NSF REU site and tends to run annually, so a 2026 cycle is very likely.
- **Kansas State University — SUMaR (Summer Undergraduate Mathematics Research)**
Focus: Pure mathematics research, including discrete complex analysis, probability, and related areas.
Status: Summer 2025 is announced. Based on multi-year history, a 2026 program is likely but not formally confirmed.
- **Georgia Institute of Technology — School of Mathematics REU**
Focus: Algebra, dynamics, graph theory, probability, and geometry/topology.
Status: The department states that a Summer 2026 REU is in the planning stage, with applications expected to open in January 2026. This program is highly likely to run.
- **Texas A&M University–Commerce — Theoretical and Application Driven Mathematics (TADM) REU**
Focus: Applied algebra, discrete mathematics, complex analysis, and operator theory.
Status: Current materials reference the 2025 cohort, but external listings suggest a tentative 2026 program. Renewal is plausible but not officially confirmed.
- **North Carolina State University — Algorithm Design: Theory and Engineering REU**
Focus: Algorithms, computational geometry, randomized algorithms, data structures, machine learning theory, and quantum computing.
Status: The 2025 program is active. The site has run previously, but no official announcement for 2026 has been posted yet. Monitor the program website for updates.

What are "MathPrograms" and "ETAP?"

Here's a brief summary of the two programs made by ChatGPT. I think it explains the platforms well.

MathPrograms.org is a centralized database maintained by the American Mathematical Society that aggregates undergraduate research opportunities in mathematics, including REUs, internships, and summer schools. It allows students to search, compare, and track programs in one place, making it a highly efficient tool when planning applications.

NSF ETAP (Education and Training Application Platform) is the National Science Foundation's official system for submitting applications to many NSF-funded REU and IRES programs. Some programs require ETAP for submission and will not accept materials through any other platform.

Creating accounts on both platforms is strongly recommended: MathPrograms improves discovery and organization of opportunities, while ETAP is often required to complete and submit applications for NSF-funded programs.