

Achievement Programs



Special opportunities for high-achieving students with strong interest in and dedication to a chosen area of study, guided by the expertise of a faculty advisor.

Scholars Program

- Talented undergraduate students are engaged at a higher level to apply their engineering and scientific training to design and research
- Students are guided by the expertise of a faculty advisor, allowing for a significant mentor relationship to be built
- Scholars Program students may conduct independent research for up to three summers and present their research results to the Stevens community in a poster presentation each fall term
- Participants in the program often present their work at professional seminars and student meetings of engineering or scientific societies
- Scholars Program students take advantage of options such as an accelerated program of study, combined degrees, honors seminars, and access to lectures and presentations delivered by distinguished professors who are experts in their fields
- Summer research opportunities include \$3500 stipend and housing

Technogenesis Program

- Undergraduates engage in research, design, or business projects for 10 weeks over the summer

- Students identify a suitable project, identify a faculty member to work closely with, and submit a proposal to the committee
- This past summer, 42 Technogenesis Summer Scholars were awarded the opportunity to engage in exciting research endeavors on campus
- Participants participate in a poster session presenting their work to the university community
- Summer program includes up to a \$3500 stipend and housing

Five-Year Bachelors/Masters Program

- A unique opportunity for high-achieving students to pursue a graduate degree concurrent with their undergraduate studies
- Five-year combined degree program for ambitious students to receive both degrees in an advanced period of time
- Program members typically attain their Master's degree in the same field of study as their Bachelor's, though exceptions may be granted
- Students in the honors program will be encouraged to complete a thesis to complement their chosen studies
- Financial benefits include obtaining two degrees in an accelerated time-frame

What Students Say...

"As a Technogenesis Summer Scholar, I conducted an analysis of pop music by researching the last 10 years of the music charts and using that data to formulate a template for a chart-topping pop song. The bulk of my time was spent in the Mac Lab composing genre-driven music templates that can be elaborated on for artists to create their own individualized music.

Being a part of this program has helped me evolve in my own creativity and has introduced me to many opportunities. This opportunity helped me grow in my field and discover my passion for creating unique audio scores."

- Allyson Vecchione, '09
Music & Technology





What Students Say...

"I worked at UMDNJ in the Advanced Imaging Center through our Scholars program. I submitted two papers for publication and participated in starting a human clinical trial! The poster session at the end of the summer was a great way to sum up my initial experience and share my research with my professors and the Stevens community."

My Scholars seminars provided a lot of insight into the different types of research going on at Stevens. It was the overall research experience the program afforded that heightened my interest in pursuing a PhD degree in biomedical sciences, in conjunction with getting my MD from UMDNJ in Newark."

*-Jill Deutsch, '09
Chemical Biology
Accelerated Pre-Med*

Research Projects by Technogenesis Scholars

- Design of an Intraocular Pressure (IOP) Sensor
- Wave Energy Harnessing Device
- Social networking in urban healthcare
- Hydrogel for eye applications
- Bone grafting technology
- Atom gyroscope with disordered arrays of quantum rings
- Stereoscopic augmented reality to assist robotic surgery
- Audio Engineering Suite iPhone application
- Cell migration on nanofibers
- Physical model tests to evaluate hydrodynamic performance of armored vehicle configurations

Research Projects by Student Scholars

- Novel approach to overcome the drug resistance of cancer cells
- Distributed production of advanced biofuels from biomass waste
- Ink-jet printed strips of fast acting nano-painkillers
- Green Aviation College Student Challenge
- Fuel cell research
- Neural tissue engineering research
- Coastal engineering research
- Social networks psychology of movement in video games
- Morphogenetic robotics
- Breast cancer imaging using electrical impedance tomography

	Initial Entry	Additional Entry Options
Scholars Program	Students are invited to join the program at time of acceptance to Stevens	After completion of the first semester, students with a 3.8 GPA can apply
Technogenesis Program	Students can apply for this program after completion of their freshman year	Students can also apply upon completion of each subsequent school year
Five-Year Masters/Bachelors Program	Students apply for this program at time of application to Stevens	At the end of their sophomore year, students are able to apply

For more information

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