

## SOU/ETIC Success Story

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ETIC funds helped the SOU Computer Science Department start the first undergraduate **CS Security** track in Oregon and a security emphasis in the Master's program, which have recruited at least twelve undergraduate students and eleven Master's students to SOU. SOU hired Dr. Lynn Ackler (at left in photo), who organized the curriculum and recruited Priscilla Oppenheimer, an expert in networking. ETIC funding established the laboratory used by students to perform security-related experiments.

On the right, Diana Carrol is demonstrating her research on cryptographic hardware for opportunistic encryption.. Diana's project focuses on fast encryption of a Voice Over IP channel. Jules Kongsli, on her right, will be working on a research-based internship in Portland this summer. Ben Davol, to her left, is writing the drivers for the project and is currently employed by SOU's information technology department.



Katy McCleary (left) and Ambra Elmer (right) are SOU students working on a project at Tree Star, Inc., a start up bioinformatics company in Ashland. They are translating a complex system for biological cell analysis to a more readily used java product for academic and commercial researchers.





Professor Panos Photinos of the department of Physics and Engineering at SOU has been studying the flow properties of **polymer solutions and liquid crystals**, in cooperation with researchers at the MacDiarmid Institute for Advanced Materials and Nanotechnology at Victoria University of Wellington, New Zealand. The cooperation has produced several presentations at professional meetings and publications.

SOU students are studying how liquids with gas bubbles flow through filtration beds under reduced gravity. This project is a collaboration among OIT, SOU, and Umpqua Research Company. The project is scheduled to fly on a NASA flight during Summer 2005. The result of this work may contribute to the Mars Mission.



Corey Hoven participated in the polymer-solutions research as a physics major at SOU, and will be presenting the most recent result at the annual meeting of the Oregon Academy of Sciences. Professor Peter Wu is also pictured.



SOU students Jason Matthews and Chase Christian (standing) are programming the computer to measure different parameters, such as pressure and flow rate.

