

# Student Achievement

An undergraduate (BSFS) degree in our program is the foundation for success, professionally as well as academically. Program success can be determined through scholarship, internship, and career placement, etc.

## Scholarship

An important measure of student achievement is our ability to publish and present original research in the field of forensic science at local, regional, national, and international forums. Our students not only presented but won awards for their research presentations.

- Two students gave a poster presentation on their undergraduate research project, ***“The Isolation, Identification, and Time Course Human Male DNA Typing from Cimex lectularius L. (Bed bugs), Fed on Human Male and Pooled Blood Meals”*** at 2018 STEM Research Symposium, Fayetteville State University, April 19, 2018.
- Two undergraduate research students gave a poster presentation entitled, **“Recovering Human Male DNA from Fired Casings Using YFiler”**; 2018 STEM Research Symposium, Fayetteville State University, April 19, 2018.
- One student gave a poster presentation on her undergraduate research project, **“Understanding Jury Verdicts using Logistic Regression Modeling”** organized by the Center for Statistics and Application in Forensic Science (CSAFE) at Iowa State University, Ames, Iowa, August 2, 2018.
- One student gave a poster presentation on her undergraduate research project, **“Development of an Initial Handwritten Letter Classifier for use in Forensic Document Analysis”** organized by the Center for Statistics and Application in Forensic Science (CSAFE) at Iowa State University, Ames, Iowa, August 2, 2018
- State of North Carolina Undergraduate Research & Creativity Symposium at Campbell University (November 4, 2017)
- NC-LSAMP Annual Research Conference at North Carolina State University (November 17, 2017). **First prize winner.**
- Two students gave a joint poster presentation on their undergraduate research at FSU Board of Governors meeting on October 23, 2017.
- FSU Undergraduate Research Symposium on January 28, 2016
- 113<sup>th</sup> North Carolina Academy of Sciences at Methodist University, NC April 1, 2016
- FSU Graduate School Student Research Conference April 1, 2016
- 26<sup>th</sup> International Symposium on Human Identification at Grapevine, TX October, 2015
- NC-LSAMP Annual Research Conference at UNC Pembroke, October, 2015
- 25<sup>th</sup> International Symposium on Human Identification at Phoenix, AZ October, 2014
- 24<sup>th</sup> International Symposium on Human Identification at Atlanta, GA October, 2013
- Spring Symposium & Research Conference in STEM at Chicago, IL January 20, 2012

## Student Research

The following six (6) students are conducting undergraduate research with FSU faculty. Students' research and stipend are sponsored through NSF funding award #1719511. The following are the students and their research fields:

- **One student** is conducting undergraduate research on a project "The study of the effectiveness of *Cannamix*, a compound derived from hemp, at controlling the *Alphitobius Diaperinus* population" under Dr. Shirley Chao
- **Two students** are conducting undergraduate research on a joint project "Recovery of DNA from Fired Ammunition Using YFiler" under Ms. Natalia Czado
- **One student** is conducting undergraduate research on a project "Electrospun nanofibers for high-sensitivity chemical detection" under Dr. Zhiping Luo
- **Two students** are working on a joint research project title "*The Isolation, Identification, and Time Course Human Male DNA Typing from Cimex lectularius L. (Bed bugs), Fed on Human Blood Meals*" under Dr. Khalid Lodhi.

## Student Publication

Three (3) forensic students are among the co-authors on a recently published paper in a peer reviewed journal:

- Isolation, identification, and time course of human DNA typing from bed bugs, *Cimex lectularius*. Coby Schal, Natalia Czado, **Richard Gamble, Amy Barrett, Kiera Weathers**, Khalid Mahmud Lodhi. Published in the Forensic Science International 293 (2018) 1–6.

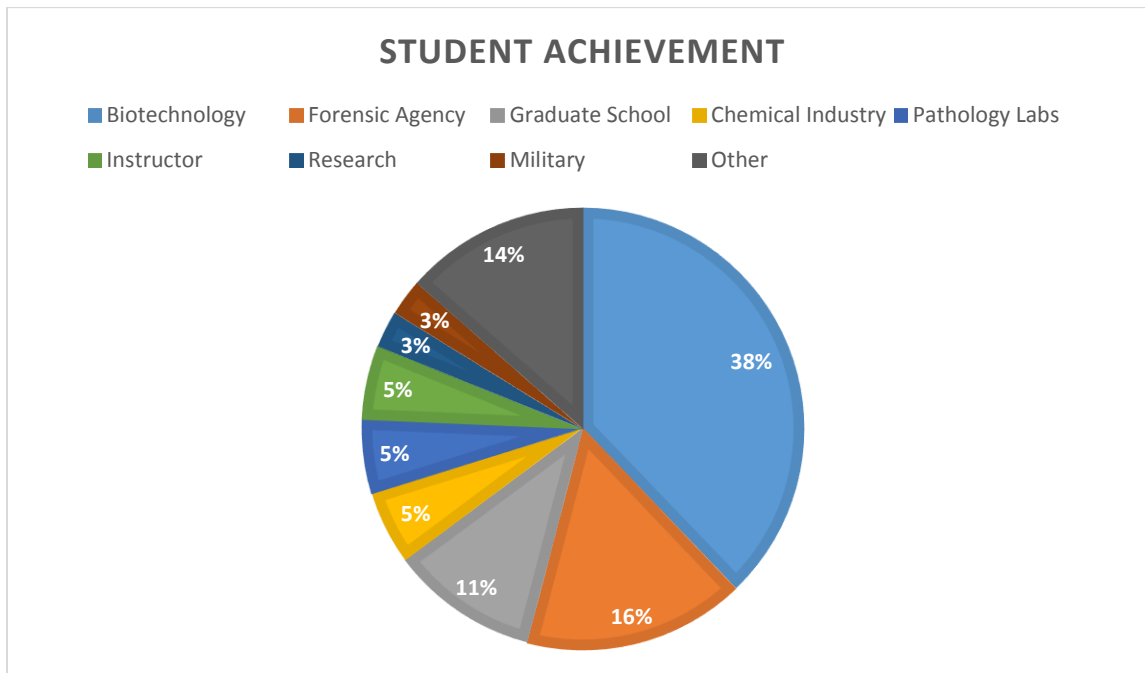
## Undergraduate Internships

Forensic science students participated in summer internships at various agencies in North Carolina or at Iowa State University.

- Center for Statistics and Application in Forensic Science (CSAFE) at Iowa State University, Ames, Iowa, June 3-August 3, 2018 – 2 students
- **One student** completed her summer (2018) internship at the Fayetteville Police Department, Fayetteville, NC.
- **One student** completed her summer (2018) internship in the Pathology laboratory at the Cape Fear Valley Hospital, Fayetteville, NC.
- State Bureau of Investigation – 6 students
- Fayetteville Police Latent Evidence Unit – 2 students
- Cumberland County Sheriff's Office – 2 students
- Charlotte-Mecklenburg Police Department – 1 student
- 6-week summer internship sponsored by the CSAFE at Carnegie Mellon University and Iowa State University June-July 2017. – 5 students

## Career Placement

A recent survey of the 55 graduates of the program showed that 14 entered into biotechnology industry (38%); 6 are confirmed working in forensic agencies (16%); 4 went to graduate school (11%); 2 entered into chemical industry (5%); 2 are employed in pathology labs (5%); 2 work in education (5%); 1 is working as a researcher at a university research laboratory (3%); 1 entered into the U.S. Air Force as a commissioned officer (3%); 5 are working nonscientific jobs (14%); and 17 did not respond to our survey (31%). Therefore, 69% of the graduates found career placements or went to graduate school.



Note: Data from 17 students that did not respond are not included