

DNA INTERNSHIP: TECHNICAL ASSISTANCE PROGRAM

Marshall University: A nationally recognized leader in forensic science education



Validation/Evaluation Services

The DNA Internship Technical Assistance Program (TAP) at Marshall University offers the forensic science community low-cost, pre-trained graduate students skilled in performing customized internal evaluation and validation of DNA technologies based on customer specifications.

Students are qualified as Technical Assistants upon meeting lab competency requirements. Their knowledge and skills include but are not limited to instruments, commercial kits, manual methods, and software programs common to most DNA Crime Lab Units.

The Marshall University Forensic Science Center (MUFSC) can provide one or more



Technical Assistants with technology-specific training and education to meet your laboratory's evaluation and validation needs. This 12-month program begins with each student receiving training during the fall

and spring each year. Each student completes a rigorous 9-month training program in our state-of-the-art facilities.

After satisfying lab competency requirements, the Technical Assistant will be prepared to successfully complete the project of your design on-site in your lab for 3 months (a maximum of 12 weeks).

Available Technologies

Define your lab's needs and choose from a wide-array of validation and evaluation services we offer for DNA technologies. We will do the training! **Please see our list of services for instrumentation, software systems, and kits.**

Apply Now!

Contact Dr. Pam Staton, Program Coordinator, at staton1@marshall.edu for more information or call 304-691-8962.

To apply, complete the MU Technical Assistance Program (TAP) Request Form on our website at www.marshall.edu/forensics/tap. Information from this form will be used to set up conference calls to determine if an appropriate "fit" exists between your project and MUFSC capabilities. MUFSC will work with your laboratory to design a customized training program for the Technical Assistant.

Please submit requests early so we may begin training technical assistants based on your specifications! Requests made from June to December will be considered as they are received.

Fees may apply to certain services.



About MUFSC

MUFSC's DNA laboratories are accredited by ANSI-ASQ National Accreditation Board/FQS as an ISO-17025:2005 and FBI QAS conformant testing lab for biological screening, databasing, casework and relationship testing. Its FEPAC-accredited forensic science graduate program is nationally recognized. This unique blend of educational programs and forensic DNA testing labs makes MUFSC an ideal organization to provide technical assistance to public and private labs.

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304-691-8962



MUFSC DNA LABORATORY INFORMATION



MUFSC-AVAILABLE DNA TECHNOLOGIES

Select and prioritize your lab's validation and evaluation needs from the list below! *Contact us for information about services for technologies not listed.*

Genetic Analyzers

Applied Biosystems® Prism 3100
Applied Biosystems® 3130
Applied Biosystems® Prism 310

Applied Biosystems® 3130 XL
Applied Biosystems®3500 XL

Real Time PCR Instruments

Applied Biosystems® 7000
Applied Biosystems® 7500
Qiagen® Rotor-gene® Q

Automation

Beckman® Biomek® 2000
Beckman® Biomek® 3000
Maxwell®16 System
Qiagen® EZ1® Workstation
Qiagen® QIAgility®
Qiacube®

Chemistries

Quantitation

Applied Biosystems® Quantifiler Duo®
Applied Biosystems® Quantifiler® Human Male
Applied Biosystems® Quantifiler Trio
Maven® Analytical Maven® QST
Plexor®HY System
Qiagen® Quantiplex® HYres

STR

Applied Biosystems® Cofiler®
Applied Biosystems® Profiler® Plus
Applied Biosystems® Identifier®
Applied Biosystems® Identifier® Plus
Applied Biosystems® Identifier® Direct
Applied Biosystems® Minifiler® Plus
Applied Biosystems® GlobalFiler™
Applied Biosystems® GlobalFiler™ Direct
Promega® PowerPlex® 16
Promega® PowerPlex® 16 Hot Start
Promega® PowerPlex® 16 HS Direct
Promega® PowerPlex® S5®
Promega® PowerPlex® Fusion
Promega® PowerPlex® Fusion Direct

Y-STR

Applied Biosystems® Y filer
Promega® PowerPlex® Y 23

Software Systems (Software system names are trademarks of their respective companies)

FSS-ⁱ™ version
Applied Biosystems® GeneMapper® ID Version
NicheVision® ArmedXpert™ Version
Cybergenetics® TrueAllele® Databank Version

TECHNICAL ASSISTANT QUALIFICATIONS

Technical Assistants are carefully selected graduate students currently enrolled in Marshall University's FEPAC-accredited forensic science program. Each Technical Assistant has met rigorous academic admissions criteria as well as successfully completed a standard Marshall University Background Check prior to participation in this program.

VALUE ADDED

Benefits for participating in the TAP program:

- 3 months of dedicated assistance
- Additional assignments can be made
- Customized services
- Crime lab analysts can continue workflow
- Interaction with potential job applicants

ANTICIPATED TIMELINE

DNA Internship TAP requests will be considered as received. Please apply prior to December to receive a Technical Assistant for the following summer.

June to	Requests received and reviewed
August to December	Technical Assistants complete accelerated DNA course at Marshall
December	We facilitate university/crime lab conference calls
January to May	Technical Assistants receive wet-laboratory specific training prior to internship
May	Technical Assistants arrive at your laboratory to begin their 10-12 week project
August	Technical Assistants return to Marshall

Visit our websites:

MU Forensic Science Academic Program DNA TAP page:

www.marshall.edu/forensics/tap

Contact us today for more information!

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