FORENSIC SCIENTIST
Digital & Multimedia Evidence Section
Position #CF802
Salary: $52,676 - $88,123
Location: Richmond, Virginia

The Virginia Department of Forensic Science is seeking a qualified candidate to perform Digital & Multimedia evidence analyses, with a focus on mobile device analysis and computer and data storage device analysis or video analysis, at the Central Regional Laboratory, located in Richmond, Virginia.

The candidate will receive and process forensic evidence; independently perform analyses; use knowledge of methodologies, techniques and instrumentation related to electronic information stored on a variety of mobile devices, and computer and data storage devices, or video recordings; interpret results and prepare reports of findings for use by the Criminal Justice System; prepare court exhibits and testify in court as an expert witness. Forensic Scientists working in this position will encounter data containing sensitive or explicit content. Occasional overnight travel is required and employee will provide own transportation as required.

To be considered qualified, candidates must have completed a documented training program and/or demonstration of competency in the Digital & Multimedia, mobile device analysis sub-discipline.

The documented training program and/or demonstration of competency can consist of relevant academic coursework, internal or external training courses, and competency tests, but must meet the Virginia Department of Forensic Science's training requirements for the candidate to be considered qualified. To view the DFS training requirements, visit: https://www.dfs.virginia.gov/laboratory-forensic-services/digital-multimedia-evidence/training-manuals/ Records documenting the successfully completed coursework, training or testing will be requested.

Candidates who are considered qualified in only the mobile device analysis sub-discipline, will be required to successfully complete an in-house training program in an additional sub-discipline, i.e. computer and data storage device analysis or video analysis.

Required Qualifications:

- Baccalaureate degree or higher from an accredited four-year college/university

- Completion of a documented training program and/or demonstration of competency in mobile device analysis

- Knowledge of the basic principles of digital & multimedia evidence acquisition and analysis

- Professional work experience conducting digital forensic examinations of mobile devices, and their associated electronically stored information

- Ability to work independently, set priorities, work efficiently, keep accurate records, effectively communicate (verbally and in writing) in a clear and concise manner, and defend scientific findings in court

- Ability to accurately perform analysis and interpret data and develop conclusions

Preferred Qualifications:

- Completion of a documented training program and/or demonstration of competency in mobile device analysis, and computer device or video analysis

- Professional work experience conducting digital forensic examinations of mobile devices, and computer and data storage devices, or video recordings, and their associated electronically stored information

- Digital forensic certification (e.g. mobile, computer, video) by an international association

- Experience working in an accredited forensic science laboratory and/or familiarity with *ANAB* / *ASCLD/LAB-International* accreditation criteria

- Ability to explain technical concepts in a manner that is simple, concise and accessible to all levels of technical understanding

- Experience providing expert witness testimony in courts of law and knowledge of criminal court procedures and rules of evidence

- Experience examining data storage media including hard disk drives (HDD), solid-state drives (SSD), RAID arrays, optical discs, and flash memory

- Experience examining current mobile device, computer device, and/or D/NVR operating and file systems

- Knowledge of and experience with mobile device repair and current data acquisition methods including automated hardware/software, custom recovery, JTAG, In-System Programming (ISP), and chip-off

- Experience implementing or mitigating information security measures (i.e. encryption and password-protection)

- Experience distinguishing between user-generated and system-generated data

- Experience searching raw, hexadecimal data for known or unknown data structures and file content

- Experience parsing encoded data, *SQLite* and *Extensible Storage Engine (ESE)* databases, application and system logs, and Registry hives and Property List (plist) files

- Experience in the repair, reconstruction, decoding, identification, capture, and/or clarification of video recordings and still images

- Knowledge of multimedia (i.e. pictures, and audio and video recordings) data structures and attributes

- Knowledge of file formats, encoding standards, and compression algorithms used in digital video

- Experience comparing known objects or persons to questioned objects or persons

- Experience with the use of *X-Ways Forensics*, *Cellebrite UFED Ultimate* and *Physical Analyzer*, *Microsoft Excel*, *DVR Examiner*, *Amped/Axon Five*, *ffmpeg*,

VideoFOCUS Pro, *Ocean Systems' dTective*, *Avid Media Composer*, or *Adobe Photoshop*

Commonwealth of Virginia state employees must serve a new probationary period.

**Selected candidates must provide a DNA sample via a buccal swab
(saliva sample), be fingerprinted, drug tested and pass a security background check**

Applicants must apply electronically using the State of Virginia's Recruitment Management System (RMS). This position is open until filled with a five day minimum posting requirement. The RMS can be accessed using the link: https://virginiajobs.peopleadmin.com. Contact Julie Smith at (804)588-4053 for assistance.

AN EQUAL OPPORTUNITY EMPLOYER

Posted 1/15/2019