

# Madison E. Pechulis

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## Education

Bachelor of Science: Biology (May 2020)  
Keene State College -- Keene, NH, USA

## Lab Skills

Next Generation Sequencing	QuantStudio™ /ViiA 7™ RT-PCR	Microtome for cutting
Equipment Maintenance	DNA/RNA FFPE Extraction	Clinical Laboratory Inventory
Document Maintenance	Data Management	Staining techniques

## Personal Skills

Fast Learner	Time Management	Team-Oriented
Well Organized	Strong Attention to Detail	Leadership experience
Flexibility	Critical Thinking	Emotional Intelligence

## Professional Experience

The Jackson Laboratory – Farmington, CT

### Clinical Genomic Technologist 1 (August 2021-Present)

- Work in a biosafety level 2 (BSL-2), Clinical Laboratory Improvement Amendments (CLIA) and CAP (College of American Pathologists) regulated and certified laboratory
- Responsible for efficient and quality execution of sample accessioning, processing and data generation for the clinical genomics laboratory
- Sample processing using nucleic acid purification and library preparation for sequencing
- Perform quality control of samples and follow standard operating procedures by QA parameters
- Assist in research processes such as STR and BioRad ddPCR/TERT
- Operated Hamilton VANTAGE (automated liquid handling) extraction methods for samples
- Perform real-time PCR, utilizing and operating cutting-edge robotics to automate the process
- Bench work Next generation sequencing (NGS) library preparation and loading of NextSeq and NovaSeq
- Adhere to laboratory quality control policies, document all QC activities and perform QC tests

### Clinical Accessioning Technician (September 2020- August 2021)

- Manage biospecimen receipt in accordance with relevant operating procedures and compliant with regulations including but not limited to DOT/IATA
- Operate CLIA JAX LIMS (Laboratory Information Management System) and other internal data systems to perform data entry, specimen tracking, and client requests
- Contributed to completing a Zero-Deficiency CAP accreditation inspection

## Continuing Education/Trainings

- Communication Basics for Laboratory Leaders
- Laboratory Effectiveness: Clinical Laboratory Utilization
- Good Laboratory Practices for Molecular Genetic Testing (PACE)