



M-Powered Level II Career Profile R&D Lab Technician

Job Description:	<p>Research and Development Technicians are critical members of a company’s research and development teams. Research and development laboratory technicians work as part of a team of scientists and/or engineers to plan, coordinate, collect, analyze, interpret and communicate the data required to develop the next generation of products. The knowledge and skills obtained in this degree will prepare a technician to immediately contribute to the research and development process of planning, coordinating, collecting, analyzing, interpreting and communicating data. The specific application of the learned knowledge and skills may vary with industry, but the ability to successfully collect and scrutinize data will make the graduates well sought after by local companies that research and develop products. In addition, R&D technician's job is to provide support to ensure the manufacturing process operates smoothly.</p>
Skills/Knowledge Needed:	<p>R&D Technicians have skills include:</p> <ul style="list-style-type: none"> • Excellent problem solving skills • Great attention to detail • Strong written and oral communication skills • Able to quickly apply their mastered skills to new applications • Flourish using the computer as a data acquisition and analysis tool • Ability to conceptualize innovative and practical solutions. <p>Additional Knowledge:</p> <ul style="list-style-type: none"> • Mechanical: Knowledge of designing, using, and repairing machines and tools. • Mathematics: Knowledge of the rules and uses of numbers. Areas of knowledge include arithmetic, algebra, geometry, and statistics. • Production and processing: Knowledge of how products are made and supplied. • Computers and electronics: Knowledge of computer hardware and software.
Interest in:	<ul style="list-style-type: none"> • Creative or innovative ideas • Natural interest in experimentation, tinkering, learning how things work, and what happens when things are changed or modified • Science
Education/Experience:	High school diploma/equivalent, preferably biotechnology certificate or A.S. and 1-2 years related laboratory experience
Alternate Titles:	<p>Lab Assistant Research Assistant Development Support Technicians</p>

M-Powered Program, a joint effort between Hennepin Technical College & HIREd, is funded by the US Department of Labor Hennepin Technical College, an affirmative action, equal opportunity employer and educator.

M-Powered has Veteran preference of admission.

For more information, please visit: www.m-powered.info



Knowledge and Skills Obtained at Level II

Course	Description
Biology in Society BIO2001 4 Credits	This course familiarizes students with fundamental biological principles and processes occurring in our natural world with an emphasis on real-world applications and the social impact of advances in the biological sciences. It is designed for non-science majors. Topics include scope of life, process of science, basic chemistry, cells, microorganisms, public health, biodiversity, evolution, and ecology. The laboratory component of the course is designed to give students hands-on applications of the principles taught in lecture. This course covers the characteristics of hazardous waste and the necessary safe handling, storage, and disposal.
Introduction to R&D RAND1000 2 Credits	Research and Development (R&D) is a critical part of a technology company's competitiveness in the marketplace by producing new or better products. This course is an introduction to the essential methods and techniques used by laboratory technicians conducting R&D across multiple industries. This course provides an overview of the knowledge and skills that will be reinforced by the other courses within the R&D Lab Technician program. Students will be exposed to the role of a R&D Laboratory Technician within the R&D team and the product development cycle. Experimental methods and the importance of data for downstream decision-making will be emphasized.
Specialized Lab PLST1900 3 Credits	This course is designed for students to enhance their skills and knowledge, in order to, become more proficient in R&D Techniques.
HTC Credits Earned:	9
Credentials Taken:	None

Career Pathway

Career Progression	Wage	Continued Education
Animal Services Technician	\$33,280-\$37,440+	AAS Degree, 1 Specialty
Lab Assistant/Technician	\$33,280-\$37,440+	AAS Degree, 1 Specialty
Maintenance and Instrument Technician	\$33,280-\$37,440+	AAS Degree, 1 Specialty
Process Technician	\$33,280-\$37,440+	AAS Degree, 1 Specialty
Quality Assurance Technician	\$33,280-\$37,440+	AAS Degree, 1 Specialty
Quality Control Technician	\$33,280-\$37,440+	AAS Degree, 1 Specialty
Technician Manager	\$41,600-\$49,920+	AAS Degree, Multiple Specialties
Research Assistant/Associate/Scientist	\$37,440-\$58,240+	BA/BS Degree
Specialized Engineer	\$45,760-\$58,240+	BA/BS Degree
Biomedical Chemist	\$62,400-\$93,600+	BA/BS Degree

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