

Job Family Matrix

Job Function: Research		Job Family: Research Core Science - Professional	
Job Family Summary: Perform or manage a range of research core activities for a broad constituency of researchers/clients including providing training, experimental design consultation, advising on methods, conducting experiments, analyzing data, and maintaining specialized instruments. These jobs are typically located in core facilities.			
Job Title: Research Core Scientist II		Job Title: Research Core Scientist III	
Job Code: R1056P		Job Code: R1057P	
Grade Level: 56 Exemption: Exempt		Grade Level: 57 Exemption: Exempt	
Effective/Revision Date: December 2022		Effective/Revision Date: December 2022	
Job Summary		Job Summary	
Execute a range of scientific research activities in a core facility including planning and conducting experiments, recording, and analyzing data, and provide training to researchers.		Independently execute a range of complex scientific research activities in a core facility including planning and optimizing research, designing analysis algorithms, and providing training to researchers.	
Typical Core Duties		Typical Core Duties	
<ul style="list-style-type: none"> • Participate in experiments/collect data to meet project objectives. Serve as a resource for experimental design and use of equipment facilities; advise and make recommendations to develop and execute scientific research. Analyze data and review identifiable factors to meet research goals • Provide training to researchers to advance knowledge of the equipment, instruments, methods, systems, and lab-specific safety protocols and best practices • Collaborate with staff and make recommendations to develop processes and facility workflows. Assist with the preparation of training manuals including standard operating procedures and related documents • Assist with evaluation, installation, and maintenance and monitoring of state-of-the-art equipment and research instrumentation • Assist with monitoring of laboratory safety compliance and ensure compliance with University policies, procedures, and applicable legal rules and regulations 		<ul style="list-style-type: none"> • Represent core on scientific research projects. Investigate the feasibility of applying a wide variety of scientific principles and concepts to meet objectives and solve complex problems. Serve as a resource for experimental design and use of equipment facilities; advise and make recommendations to develop and execute complex scientific research. Analyze data and review identifiable factors to meet research goals • Provide training to researchers to advance knowledge of the equipment, instruments, methods, systems, and lab-specific safety protocols and best practices; serve as technical liaison • Write and co-author scientific papers and other publications • Collaborate with staff and make recommendations to develop processes and facility workflows. Assist with the preparation of training manuals including standard operating procedures and related documents • Evaluate, install, maintain, and monitor state-of-the-art equipment and research instrumentation • Assist with monitoring of laboratory safety compliance and ensure compliance with University policies, procedures, and applicable legal rules and regulations 	
		<ul style="list-style-type: none"> • Represent core on scientific research projects and may lead complex projects. Investigate the feasibility of applying a wide variety of scientific principles and concepts to meet objectives and solve complex problems. Collaborate with researchers to advise, counsel, and make recommendations on the best experimental approaches. Provide guidance on experimental design, data collection and/or analyses; analyze and evaluate identifiable factors to meet research goals • Provide training to researchers to advance knowledge of the equipment, instruments, methods, systems, and lab-specific safety protocols and best practices; serve as technical liaison • Write and co-author scientific papers and other publications • Collaborate with staff and make recommendations to develop processes and facility workflows. Prepare training manuals including standard operating procedures and related documents • Evaluate, install, maintain, and monitor of state-of-the-art equipment and research instrumentation. Manage service contracts. Coordinate with vendors as needed • Manage administrative activities, processes, and workflows. Collaborate with various departments and serve as a consultant • Assist with monitoring of laboratory safety compliance and ensure compliance with University policies, procedures, and applicable legal rules and regulations 	

Job Family Matrix

Basic Qualifications	Basic Qualifications	Basic Qualifications
<ul style="list-style-type: none"> • Bachelor's degree in a scientific or engineering discipline and at least one year of relevant work experience; OR • A minimum of five years of relevant work experience or equivalent combination of education and experience 	<ul style="list-style-type: none"> • Bachelor's degree in a scientific or engineering discipline and at least two years of relevant work experience; OR • A minimum of seven years of relevant work experience or equivalent combination of education and experience 	<ul style="list-style-type: none"> • Bachelor's degree in a scientific or engineering discipline and at least five years relevant of work experience; OR • A minimum of nine years of relevant work experience or equivalent combination of education and experience
Additional Qualifications and Skills	Additional Qualifications and Skills	Additional Qualifications and Skills
<ul style="list-style-type: none"> • Knowledge of Microsoft Office Suite, intermediate Excel skills • Excellent communication skills in the English language, both written and oral • Ability to perform highly complex experiments with high levels of reliability and accuracy within time constraints • Must possess excellent problem-solving skills 	<ul style="list-style-type: none"> • Knowledge of Microsoft Office Suite, intermediate Excel skills • Excellent communication skills in the English language, both written and oral • Ability to perform highly complex experiments with high levels of reliability and accuracy within time constraints • Must possess excellent problem-solving skills 	<ul style="list-style-type: none"> • Master's degree in a scientific discipline • Knowledge of Microsoft Office Suite, intermediate Excel skills • Excellent communication skills in the English language, both written and oral • Ability to perform highly complex experiments with high levels of reliability and accuracy within time constraints • Must possess excellent problem-solving skills
Certificates and Licenses	Certificates and Licenses	Certificates and Licenses
Physical Requirements	Physical Requirements	Physical Requirements
<ul style="list-style-type: none"> • Lifting (up to approximately 50 pounds), bending, and other physical exertion including repetitive motions • Standing and/or sitting for extended periods 	<ul style="list-style-type: none"> • Lifting (up to approximately 50 pounds), bending, and other physical exertion including repetitive motions • Standing and/or sitting for extended periods 	<ul style="list-style-type: none"> • Lifting (up to approximately 50 pounds), bending, and other physical exertion including repetitive motions • Standing and/or sitting for extended periods
Working Conditions	Working Conditions	Working Conditions
<ul style="list-style-type: none"> • May be exposed to bloodborne pathogens, primary tissue, cell lines or infectious materials • May work in a research environment where animals are present • May be exposed to toxic, radioactive, or carcinogenic materials including compressed gases, acids, solvents, vacuum pump oils, and other chemicals • May be required to work nights and weekends 	<ul style="list-style-type: none"> • May be exposed to bloodborne pathogens, primary tissue, cell lines or infectious materials • May work in a research environment where animals are present • May be exposed to toxic, radioactive, or carcinogenic materials including compressed gases, acids, solvents, vacuum pump oils, and other chemicals • May be required to work nights and weekends 	<ul style="list-style-type: none"> • May be exposed to bloodborne pathogens, primary tissue, cell lines or infectious materials • May work in a research environment where animals are present • May be exposed to toxic, radioactive, or carcinogenic materials including compressed gases, acids, solvents, vacuum pump oils, and other chemicals • May be required to work nights and weekends

Job Family Matrix

Job Function: Research	Job Family: Research Core Science - Professional
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Job Title: Research Core Scientist V	
Job Code: R1059P	
Grade Level: 59	Exemption: Exempt
Effective/Revision Date: December 2022	
Job Summary	
Manage and execute a range of complex scientific research in a core facility environment including planning and optimizing research, designing analysis algorithms, and providing training to researchers, faculty, and staff.	
Typical Core Duties	
<ul style="list-style-type: none">• Serve in a lead role and represent core on complex projects. Investigate the feasibility of applying a wide variety of scientific principles and concepts to meet objectives. Collaborate with students, researchers, and faculty to advise, counsel, and make recommendations on the best experimental approaches relative to the nature of the research. Including serving as a subject matter expert to guide experimental design, use of equipment/facilities, and research data collection. Provide guidance with respect to data collection and/or analyses; analyze and evaluate identifiable factors to meet research goals• Provide training to researchers to advance knowledge of the equipment, instruments, methods, systems, and lab-specific safety protocols and best practices; serve as a technical lead• Write and co-author scientific papers and other publications. Participate in proposal development and may be eligible for Principal Investigator rights• Oversee preparation of training manuals including standard operating procedures and related documents• Evaluate state-of-the-art equipment and research instrumentation and oversee their installation and maintenance• Collaborate with various departments and serve as a consultant. Oversee administrative activities, processes, and facility workflows• Monitor laboratory safety compliance and ensure compliance with University policies, procedures, and applicable legal rules and regulations	

Job Family Matrix

Basic Qualifications

- PhD in in a related scientific discipline
- Minimum of eight years' relevant work experience

Additional Qualifications and Skills

- Knowledge of Microsoft Office Suite, intermediate Excel skills
- Excellent communication skills in the English language, both written and oral
- Ability to perform highly complex experiments with high levels of reliability and accuracy within time constraints
- Must possess excellent problem-solving skills

Certificates and Licenses

Physical Requirements

- Lifting (up to approximately 50 pounds), bending, and other physical exertion
- Standing and/or sitting for extended periods

Working Conditions

- May be exposed to bloodborne pathogens, primary tissue, cell lines or infectious materials
- May work in a research environment where animals are present
- May be exposed to toxic, radioactive, or carcinogenic materials including compressed gases, acids, solvents, vacuum pump oils, and other chemicals
- May be required to work nights and weekends