# Lightning Session Descriptions

<table>
<thead>
<tr>
<th>9:00-10:00 Lightning Sessions</th>
<th>10:30-11:30 Lightning Sessions</th>
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<td><em><em>Military</em>-related research:</em>* Research that pertains to military-related functions, military personnel, families, veterans, and any other research that involves a military focus.</td>
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<td>*Details of classified research will not be shared at this session.</td>
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<td><strong>Cyber research:</strong> Research addressing computers, computer networks, and other forms of digitized information.</td>
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<td><strong>Climate-Earth Systems research:</strong> Research that addresses climate-earth systems from diverse disciplines that includes (but is not limited to) a focus on climate change and the climate-food-energy-water nexus.</td>
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<td><strong>Health Disparities research:</strong> Research aimed at identifying, characterizing, remediating, and/or preventing health disparities, where health disparities refer to differences in health status of different groups of people (by ethnicity, age, sex, socio-economic status, region...).</td>
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<td><strong>Energy research:</strong> Research addressing diverse approaches to harvesting and transforming energy.</td>
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<td><strong>Nano-Bio research:</strong> Research that addresses the intersection of nanotechnology and biology.</td>
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<td><strong>SENCER</strong>: Science Education for New Civic Engagements and Responsibilities aims to strengthen student learning and interest in STEM by connecting course topics to issues of critical local, national, and global importance.</td>
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<td><strong>Science, Technology, Engineering and Math (STEM) Education research:</strong> Research that presents innovations in education and informs teaching and learning in STEM.</td>
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<td><strong>Functional Magnetic Resonance Imaging (fMRI) research:</strong> Multi-disciplinary research, in areas such as cognitive neuroscience, using MRI technology that measures brain activity by detecting associated changes in blood flow.</td>
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<td><strong>Omics and Informatics research:</strong> Research addressing an array of molecules in an organism-wide manner (e.g., genomics, proteomics, transcriptomics, metabolomics and phenomics) and the analysis, using powerful algorithms, of vast amounts of data (“big data”) produced by omics approaches.</td>
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<td><strong>Research Data Management</strong>: This session will facilitate a conversation about the current state of research data management at Auburn.</td>
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<td><strong>Creative Scholarship</strong></td>
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<td>(A) <strong>Visual, Performing, Media and Literary Arts:</strong> The creation, performance, production and dissemination of artistically driven visual art, media arts (film, video, new media and audio), theatre, dance, music and literary art.</td>
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<td>(B) <strong>Digital Applications:</strong> Practical applications of digital technology related to the direct application of digital technologies to the solution of issues including but not limited to production, fabrication, communication, infrastructure assessment, imaging, etc.</td>
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<td>(C) <strong>Applied Design:</strong> Research and creative work from diverse disciplines related to design systems and solutions with practical applications for building, production and fabrication.</td>
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*Panel format*