



for approximately one third of the industry's total annual receipts.² Likewise, P&S Market Research estimates a compound annual growth rate of 10.1 percent from 2017 to 2023 for the global GIS market.³

A particular highlight is the field of cartography and photogrammetry. According to the U.S. Department of Labor's Bureau of Labor Statistics (BLS), the field of cartography and photogrammetry is expected to grow much faster than average at 19% or by 2,400 jobs between 2016 and 2026. With a median salary over \$62,750, employment in jobs related to cartography and photogrammetry are excellent opportunities for recent university graduates who have GIS experience and specialization.⁴

In the last five years, many state agencies have incorporated geospatial technologies and have created new positions for GISc analysts, technicians, programmers and managers. Some South Dakota agencies that employ persons with GISc training include the Department of Game, Fish and Parks, Department of Transportation, Department of Environment and Natural Resources, and Department of Public Safety to name a few. In addition, Native American tribal governments, city planning departments, and regional planning agencies have created new positions for GISc specialists. Increasingly, there is a demand for GISc professionals in private industry within South Dakota. Surveying and engineering firms throughout the state routinely hire GISc professionals. EROS Data Center employs persons with remote sensing skills. A certificate in Geographic Information Sciences will provide advanced training for individuals working in public and private industries throughout the state of South Dakota, the region and the United States. The South Dakota Department of Labor & Regulation⁵

authorized to offer a minor and certificate in Geospatial Technology. They are not authorized to offer their programs at UC-SF or online.

3. Are students enrolling in the program expected to be new to the university or redirected from other existing programs at the university? Complete the table below and explain the methodology used in developing the estimates.

SDSU expects most of the students to be new to the university. Students like the flexibility of programs offered online or through the University Center which allow them to continue to

that delivery online or at University Center - Sioux Falls will have much impact on the -to-face, on-campus courses. As seen in the table below, the certificate is expected to attract seven students per year through delivery online and at University Center Sioux Falls. Students are already enrolling in the available courses. Over the past five years, three students have received the certificate in Geographic Information Sciences. The certificate was originally intended for individuals already in the workforce to
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**Certificate in Geographic Information
Sciences** Credit

