Maricopa Community Colleges Innovation of the Year Application

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College	Project title
Glendale	Maricopa Engineering Advising Guides and Resources

Team members – List the team members involved in this project, including yourself. Provide name, job title, email for each. One person per line.

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A team photograph including all members must accompany this application. Photograph must be 5"x7" and 300dpi or larger. Create a caption for this photograph Identifying team members (using full names) in order of appearance from left to right.

From top left: Kristin Bennes, Paula Cheslik, Basam Matar, Karen Conzelman, Ibrahim Naim, Kathy Silberman, and Jay Franzen.

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Executive summary (50 words or less)
Designed to improve accuracy and efficiency of engineering pipeline advising to ASU, the Maricopa Engineering Advising Guides and resources aid both academic advisors and engineering students alike. Guides save time and human resources, reduce advisement errors, and promote transfer readiness, effectively making students' journeys more efficient, cost effective and streamlined.

Innovations should include information that addresses all of the criterion below and is in alignment with the [Maricopa Vision, Mission, and Value Statements](#).

Quality: It is evident that the innovation increases "quality" in the course, program, office, or institution.
The guides and success tips allow us to do more with less! They provide timely and accurate information greatly improving the overall quality of engineering advising and transfer across the Maricopa colleges minimizing advising errors and saving money. In a condensed 2-page format, guides combine information from multiple sources: ASU Major Maps, MAPPs, Associate in Science, AAS in Engineering Technology, degree concentration options, university course equivalency, course sequencing, and pre-requisites.

Efficiency: There is evidence that the innovation contributes to a more efficient way of doing things.
The Maricopa Engineering Advising Guides provide a sequenced, comprehensive educational plan that helps engineering students fulfill as many required courses as possible prior to transfer without getting off track with unneccessary courses. Included coursework for the Associate in Science and optional AAS in Engineering Technology promote completion of companion Associate degrees that help students transfer, acquire internships and student employment. Ancecdotal responses indicate Maricopa Engineering Advising Guides save advisors and engineering students approximately 1 hour per advising session.

Cost effectiveness: There is evidence that the innovation adds a value to the institution while at the same time containing or reducing costs.
It is estimated that the guides save the Maricopa Community Colleges $50,000 per year in reduced staff time advising engineering students. Students are expected to encounter additional savings avoiding unnecessary classes that do not apply to their program of study and sequencing classes in an order to allow them to complete on time. The guides provide all eligible transfer coursework to ensure efficient and effective use of the community college system for transfer preparation.

Replication: The innovation selected can be replicated in other institutions with a minimum of difficulty.
The guides began at GCC three years ago and were refined and improved each year through feedback. In 2016, with the help of the team, the guides were updated for all Maricopa Colleges and implemented through a link on the District Curriculum website. Other colleges and universities across the country have requested guides in order to develop similar documents for their respective institutions.

Creativity: The innovation should be as original as possible or the adaptation should be creative.
With tighter budgets we have to find new ways to ensure that students pursing complex transfer programs, especially those in high paying STEM fields, receive effective guidance in developing detailed educational plans. The Maricopa Engineering Advising Guides meet this need in an innovative way. Most institutions of higher education don't have guides of this quality and efficiency, in fact, multiple requests have been made to share our guides with numerous external colleges and

universities.
Timeliness: The innovation should not be more than five years old in the institution, but it must have been around long enough to be tested so that it meets most of the criteria.
The guides began at GCC three years ago based on earlier documents from engineering faculty and were refined and improved each year through feedback. In 2016, with the help of the team, the guides were updated for all Maricopa Colleges and implemented through a link on the District Curriculum website.
Learning: The results of the innovation have been shared with others for the benefit of students throughout Maricopa.
The promotion of the Maricopa Engineering Advising Guides has been shared with the District Academic Advising Council and a shared link on the District Curriculum Transfer page. Chandler Gilbert Community College hosts their own website with copies.
Collaboration: The innovation successfully demonstrates collaboration, teamwork, and cooperation to ensure continuous process improvement efforts on behalf of students throughout Maricopa.
Collaborations include multiple departments and campuses together with support from the District Office. Engineering Advising Guides are reviewed annually for updates and improvements.