



Center for the Management, Utilization and Protection of Water Resources

Title: Center for the Management, Utilization and Protection of Water Resources

Start: 7/1/2018

End: 6/30/2019

Progress:

Reporting Year:

Providing Department: Water Resources Center

Department/Unit Contact: Amy Hill

Responsible Roles: No Roles Selected

Mission/Vision/Goal Statement: **Mission:** The mission of the Center for the Management, Utilization, and Protection of Water Resources is to support state and federal agencies, communities, and industry in solving water quality, biodiversity, and water security problems and advancing scientific understanding of all aspects of water science and engineering through basic and applied research. Center researchers study aquatic biodiversity and ecology from genes to ecosystems; address water quality challenges and develop better treatment technologies; and implement state-of-the-art technologies and tools for watershed sciences, modeling & simulation, data acquisition and geospatial analysis. The Center provides a strong water resources research infrastructure at Tennessee Tech by supporting faculty research, training and mentoring of future water professionals, and serving the citizens of the state of Tennessee.



Goal 1

Title: Goal 1

Start: 7/1/2018

End: 6/30/2019

Progress:

Providing Department: Water Resources Center

Responsible Roles: No Roles Selected

Define Goal: Increase recognition of the Center and its faculty through invited presentations, refereed publications, and other promotion initiatives. Produce a minimum of eight refereed publications per year and present at a minimum of 10 professional, regional, national or international meetings per year.

Intended Outcomes / Objectives: **Objective 1.1. Produce a minimum of eight refereed publications per year.**
Objective 1.2. Produce a minimum of 10 professional regional, national or international meetings per year.

Action Plan: Through refereed publications, continued external funding, focused research, and participation in professional organizations, faculty obtain state, regional and national recognition.



Goal 2

Title: Goal 2

Start: 7/1/2018

End: 6/30/2019

Progress:

Providing Department: Water Resources Center

Responsible Roles: No Roles Selected

Define Goal: Increase externally funded research.

Intended Outcomes / Objectives: **Objective 2. Increase externally funded research, which addresses the diverse water-related problems in Tennessee, the nation and the world. Toward this goal, the Center strives to increase external funding to 75% of state appropriation.**

Action Plan: Strategic focus areas have been established by Center faculty and faculty associates. A portion of Center funds are being invested in selected high-return, research focus areas. Priority for the remaining research funds will be given to projects with potential to secure additional related external funds. The Center annually supports faculty who seek external research funds by: reviewing proposals prior to their being sent off campus; providing travel funds to support PIs meeting with agency program directors to discuss research opportunities; keeping faculty informed about research opportunities; bringing faculty together to develop interdisciplinary research proposals; and providing essential matching funds and student research support. The Center is working with the university administration to keep Tennessee's Congressional delegation informed about research findings and new emerging areas of research.



Goal 3

Title: Goal 3

Start: 7/1/2018

End: 6/30/2019

Progress:

Providing Water Resources Center

Department:

Responsible Roles:

No Roles Selected

Define Goal: Increase the number of graduate students supported by the Center.
Intended Outcomes
/ Objectives:



Tracking Number of Graduate Students Supported

Title: Tracking Number of Graduate Students Supported

Start: 7/1/2018

End: 6/30/2019

Progress:

Providing Water Resources Center

Department:

Goal/ Outcome/ Goal 3

Objective:

Type of Tool: Tracking Spreadsheet

Frequency of Annually

Assessment:

Rationale: The Center will continue to increase its initiative to support graduate students in their environmental science/engineering related research. Annually, the Center will assess how many students have been supported.

Responsible Roles:

No Roles Selected



Assessment: Collaborating with External Partners

Title: Assessment: Collaborating with External Partners

Start: 7/1/2018

End: 6/30/2019

Progress:

Providing Water Resources Center

Department:

Goal/ Outcome/ Goal 2

Objective:

Type of Tool: Other

Frequency of Every Five Years

Assessment:

Rationale: The Center will assess its goal of increasing external funding through the expansion of external collaborations. These collaborations will extend into all aspects of improving water quality including expanding initiatives in projects specifically identified as regional priorities, and sensors and other information technology tools to help society and the community. Collaborative relationships and intellectual capital will also be developed to support the Tennessee Department of Environment and Conservation and the Tennessee Department of Transportation in their environmental efforts throughout the state.

Responsible Roles:

No Roles Selected



Assessment: External Funds

Title: Assessment: External Funds

Start: 7/1/2018

End: 6/30/2019

Progress:

Providing Water Resources Center

Department:

Goal/ Outcome/ Goal 2, Objective 2.1

Objective:

Type of Tool: Other

Frequency of Annually

Assessment:

Rationale: The Center annually assesses the external funds received during the state's fiscal year. The Center conducts trend analyses to determine progress toward achieving goals and asserts corrective action when needed.

Responsible Roles:

No Roles Selected



Assessment: Faculty Evaluations and Annual Reports

Title: Assessment: Faculty Evaluations and Annual Reports

Start: 7/1/2018

End: 6/30/2019

Progress:

Providing Water Resources Center

Department:

Goal/ Outcome/ Goal 1, Objective 1.1

Objective:

Type of Tool: Other

Frequency of Annually

Assessment:

Rationale: Annual faculty achievement reports contain information on scholarly works. This information is compiled and analyzed annually.

Responsible Roles:

No Roles Selected
