

2. Where can the UMCES community make the biggest contribution to society and the environment?

Provide science based solutions to environmental problems

Engaging stakeholders in research design. This will improve the relevance of research to important public policy questions. We have the expertise and experience to do this locally, regionally and globally.

Translating science for policy makers and program managers.

Integration of complex science and complex society

Educate the public about evidence based scientific findings and provide solutions that are simple to understand.

Chesapeake Bay large scale restoration under climate change.

By helping restoration of the bay and improving lives of Marylanders, then utilizing same principles in other national and international estuaries for others; Locally relevant, nationally excellent & globally eminent.

Addressing current and future environmental health concerns. Basic fundamental science to inform and address applied environmental questions. To be leaders, unbiased scientists to present the state of the science to inform managers and legislators.

Providing scientific evidence that informs managers, legislators and the public to enact appropriate changes that will improve the health of our environment

2. Where can the UMCES community make the biggest contribution to society and the environment?

Solving global and local problems

Collaboration

Education

3. How can UMCEs improve diversity and inclusivity?

Gender fairness

reach out

Open house diversity inclusion booths

Bring back that science is cool!

More funding for early career faculty from underrepresented groups

Inter-lab collaboration

Ask current students from underrepresented groups about their experiences and how to support and advocate for them

Work with communities of color to foster curiosity in young children

Go to Middle Schools. Engage Parents.

3. How can UMCEES improve diversity and inclusivity?

Work with faculty at other USM institutions that have large undergraduate enrollment in sciences.

Increase HBCU Involvement

Show examples, advertise

Work with local middle and high schools to introduce students to the field

USM cooperation linking undergrad grad postdoctoral and faculty opportunities and experiences

Promote cross cultural exchanges among faculty, students, and staff.

Engagement

Engage with environmental science in primary and secondary education. Stress the ability of science to help solve society's problems. And stress that science is accessible for all. Combat the current national devaluation of science

Acknowledge and reward faculty for inclusion diversity service

6. What should UMCES do to THINK BIG?

do more

Independently fund scientists so they can spend time thinking

Focus on climate change issues

Create a Manhattan project for climate change

Promoting collaborative studies that focus on past, present, and future conditions.

Scale Should UMCES change

Reach out to middle schoolers and teachers.

Properly staff initiatives/departments

Promote cross disciplinary and cross laboratory research.

6. What should UMCES do to THINK BIG?

Address big questions, empower students to get involved, co-design and co-develop collaborative projects

Open mind approach

Foster new, innovative, high risk- high reward style pilot projects within the umces faculty

Develop and implement a strategy to dramatically enhance UMCES state and national profile by its centennial in 2025.

Speak out more frequently in support of / opposition to proposed legislative and policy actions that are consistent with / contrary to current scientific understanding

Factor the future under climate change in everything we do.

Consider the distribution chain (who will pay for and use the solution). Ex - agriculture technology company, like Pioneer, will license UMCES solution and they will sell to farmers.

Collaborate and network widely to address questions we do not have the capacity to alone.

Meet with large federal and foundation funders to know targets for collaborative big science. Diversify and leverage international relationships to attack big questions. Be brave and confident to work across the institution on big issues

6. What should UMCES do to THINK BIG?

Participate at the global scale (UNEP, UNDP, etc). Actively publicize our efforts. We are global leaders already - We don't do enough to make sure people know it.

Focus on the underlying issues that underpin most problems, such as, water quality and security