



## Description

In a landmark decision, the US Supreme Court has rendered a ruling that race can no longer be considered as a factor in university admissions. This verdict has significant implications for not only the nation's approach but also across the world, marking a major shift in the ongoing debate over diversity in higher STEM and education.

This decision paves a way to end the race-based university admissions and transition toward meritocracy-based admissions. Let's explore how diversity in science can be boosted by embracing meritocracy and debarring racial discrimination.

## Criticism Around Race-based Admissions in STEM education

While the goal of promoting diversity and addressing inequalities is well-intentioned, opponents argue that race-based admissions may have unintended consequences. Some of the main criticisms include:

### Meritocracy and Fairness

Critics contend that [race-based admissions compromise](#) the principle of meritocracy, where students are admitted based on their academic achievements and abilities. They argue that this approach can lead to admitting applicants with lower qualifications solely based on their race, potentially overlooking more qualified candidates from other backgrounds.

### Mismatch Theory

The mismatch theory posits that admitting students with lower academic credentials into competitive STEM programs can lead to negative academic outcomes. It suggests that these students may struggle to keep pace with their peers, leading to lower graduation rates, decreased confidence, and discouragement from pursuing STEM fields altogether.

### Stigmatization

Some critics argue that race-based admissions can perpetuate stereotypes and stigmatize underrepresented minority students. By implying that these students need preferential treatment to

succeed academically, their accomplishments may be viewed with skepticism, undermining their self-esteem and fostering a sense of inadequacy.

## Reverse Discrimination

Critics also assert that race-based admissions can lead to reverse discrimination, where applicants from overrepresented racial groups may face disadvantages due to affirmative action policies. They argue that individuals should be treated based on their unique attributes and accomplishments, rather than their race.

## Diversity Without Inclusion

Admitting students from diverse backgrounds does not guarantee an inclusive and supportive learning environment. Institutions must invest in additional resources and support systems to ensure all students, regardless of their racial background, feel welcomed and succeed academically.

## Resource Allocation

Critics argue that focusing on race-based admissions can divert attention and resources away from addressing the root causes of underrepresentation in STEM fields. Investing in early education, mentorship programs, and outreach initiatives may have a more substantial impact on [increasing diversity in STEM](#).

## Legal Challenges

Affirmative action policies, including race-based admissions, have faced legal challenges, with opponents arguing that they violate the Equal Protection Clause of the Fourteenth Amendment of the US civil rights. These legal battles can create uncertainty for institutions and lead to changes in admissions policies over time.

# 10 Strategies to Foster Diversity in Science

Promoting diversity in science is crucial for ensuring a broader representation of talent and perspectives, which ultimately leads to more robust and innovative scientific advancements. Several strategies can be implemented to foster diversity in the field of science:

## 1. Blinded College Admissions

Adopting a blinded admissions process involves removing identifiable information, such as names, gender, race, and socioeconomic background, from college applications. This approach ensures that admissions decisions are based solely on an applicant's academic achievements, extracurricular activities, and potential to contribute to the scientific community, mitigating biases and leveling the playing field for all applicants.

## 2. Holistic Review Process

Implement a holistic review process that considers a broad range of factors beyond standardized test scores and grades. Evaluating an applicant's personal experiences, challenges faced, and their potential to overcome adversity can provide a more comprehensive view of their qualifications and potential contributions to the scientific field.

### **3. Economic Background Considerations**

Colleges and universities can consider an applicant's economic background when making admissions decisions. Students from disadvantaged socioeconomic backgrounds often face additional obstacles in accessing quality education and resources. By giving weight to economic hardships, institutions can increase access for talented individuals who have demonstrated resilience and potential despite facing adversities.

### **4. Financial Aid and Scholarships**

Offer robust financial aid packages and scholarships specifically targeting underrepresented minority groups and students from low-income families. Financial barriers should not prevent talented individuals from pursuing a career in science.

### **5. Diverse Outreach and Partnerships**

Establish partnerships with schools and organizations serving diverse communities. These collaborations can facilitate targeted outreach programs to increase awareness of opportunities in science. Furthermore, they can provide resources and mentorship for aspiring scientists from underrepresented backgrounds.

### **6. Cultivating Inclusive Learning Environments**

Promote an inclusive and welcoming atmosphere in scientific institutions and laboratories. Foster an environment where all students and researchers feel valued and supported, regardless of their race, ethnicity, gender, or socioeconomic background.

### **7. Faculty and Mentorship Diversity**

Encourage and support the recruitment of diverse faculty members, mentors, and role models. Diverse faculty can serve as powerful motivators and provide valuable guidance to students from underrepresented backgrounds.

### **8. STEM Programs for Underrepresented Groups**

Establish and fund targeted STEM programs for underrepresented groups at an early age. These programs can help spark interest in science and provide a foundation for students to pursue STEM careers.

### **9. Research and Data Collection**

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[Conduct research and collect data](#) on diversity in science and academia. Understanding the barriers that underrepresented groups face can inform the development of more effective strategies for promoting diversity.

## 10. End of Legacy Admissions

Legacy admissions, which give preference to applicants with familial connections to the institution, can perpetuate existing inequalities. Consider ending or reducing legacy admissions to prioritize applicants based on their individual qualifications and potential contributions.

By adopting more nuanced and comprehensive approaches, institutions can strive to create inclusive and supportive learning environments, ultimately fostering diversity in science. What strategies would you implement from ground up and at the management level for a more diverse and inclusive education system. [Share your diverse perspectives and experiences](#) to enrich the scientific community on Enago Academy Open Platform.

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