

Exploring careers in science: What does your future hold?

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Overview

- Career Center snapshot of services
- Tools for exploring careers
- Industries & trends in science
- Employer Perspective
- Building your Skills
- Intern Success Practicum
- Strategies for acquiring industry knowledge
- Next steps..





UMBC Career Center Staff



The UMBC Career Center aims to empower all students and graduates to create their own success stories.





UMBC Career Center reception



Campus Location: Math/Psych. Building

Hours: 8:30 – 5 PM – M-F

Careers.umbc.edu





Snapshot of services

Still exploring?

- Career decision-making or assessments
- Career research tools

Ready for action?

- Internship/Research/Job search assistance
- Interview preparation
- Graduate school guidance

Services for all

- Document preparation (resume/CV, personal statement, cover letter)
- Employer connections
- Networking strategies
- Database of jobs, internships & research positions (UMBCworks)





UMBCworks

- Database of internships/jobs
- 20K+ employers registered
- Search/apply to positions 24/7
- All students have personal accounts
- Sign up for on-campus interviews
- Schedule appointments with Career Center (online)

* IMPORTANT *

Must have an approved resume to apply to positions!

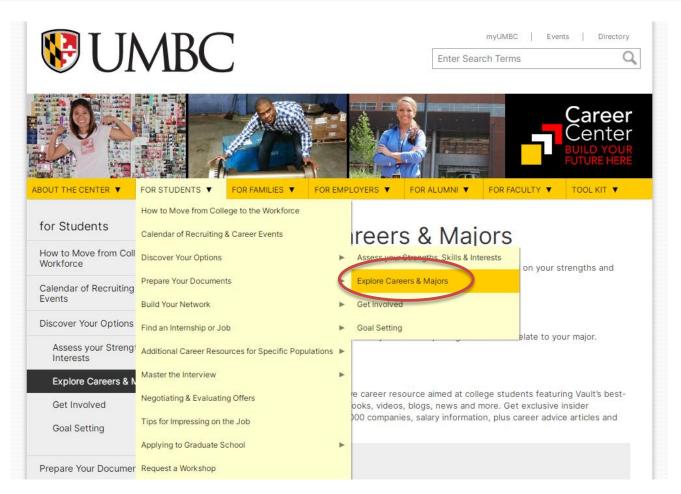




UMBC Career Center

Tools for exploring

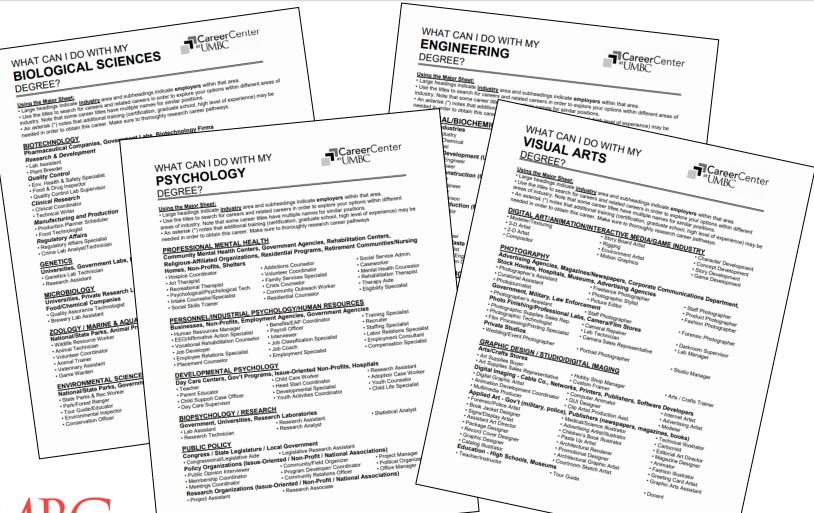
Tools for Exploring Majors & Careers







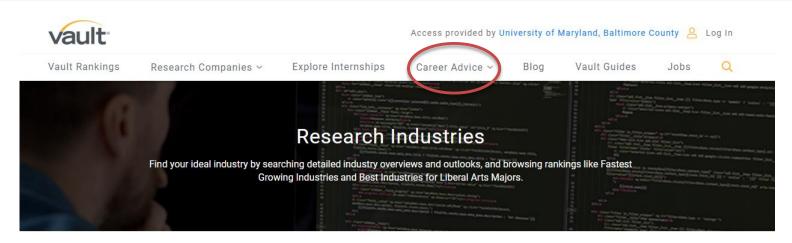
1. What can you do with your major?



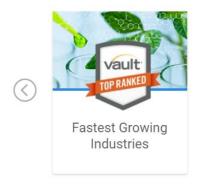




2. The Vault



Top Ranked Industries









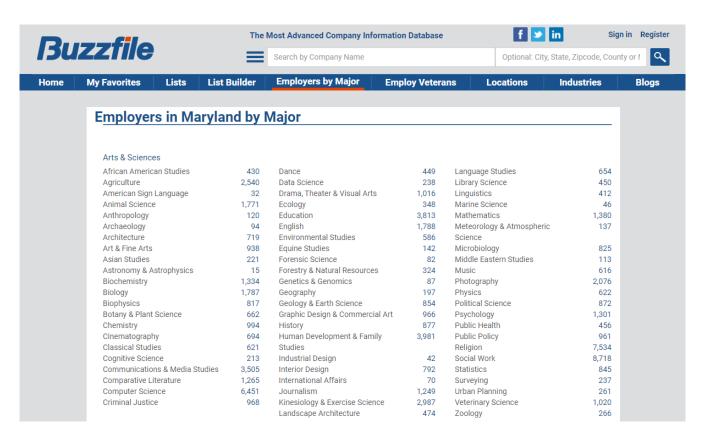






3. Buzzfile

http://www.buzzfile.com/Major/MD







INDUSTRY/TRENDS

Science Careers

Industries & Trends in Science

- Biology and Life Sciences
- Environmental Science/Conservation
- Pharmaceutical/Biotechnology
- Bioinformatics Specialists





Biology and Life Sciences

Outlook/Trends:

- Research & Development
- Defining Event: Human Genome Project (mapping of human genome)
- Advances in biotechnology (cloning, human DNA, drug research) will shape future of life science
- Isolating & identifying genes for Tx of diseases
- Emphasis on discovering ways to protect human health & curing genetic diseases, slowing aging process
- Protection of the environment due to human encroachment on wildlife

Brightest Employment Sector:

Genetics and Biotechnology





Environmental Science/Conservation

Outlook/Trends:

- Shrinking world impacting humans and environment
- More living space and food needed
- Increase need in areas of horticulture, botany, zoology
- Endangered species protection
- Global warming, ozone depletion, forest erosion, changes in Earth's atmosphere
- Expanded to include environmental planning

Highest Priority:

Curbing global warming, clean energy, reviving oceans, defending endangered wildlife, pollution prevention, safe/sufficient water, sustainable communities





Pharmaceuticals & Biotechnology

Overview

- Production of drugs/products that help people/animals live healthier, recover from injuries, and fight illness
- 3rd most profitable industry
- Led to discoveries that have changed human existence:
 - Increased life expectance, survival rates for those with deadly diseases, improved correct diagnosis of diseases and disorders
- Complex organizations that must adhere to strict scientific requirements and rigorous government regulation
- Array of opportunities: scientists, physicians, engineers, marketing, sales, human resource professionals

Outlook:

- Opportunities exist at every career level
- Major provide or jobs in the U.S. and the employment outlook is excellent.





Bioinformatics Specialists

Overview:

- Collection, management, and study biological and biochemical data at the molecular level using computer software and hardware.
- Design databases and develop algorithms to study/manage data.
- Human Genome Project resulted in increased interest/demand

Trends/Outlook:

 Bioinformatics specialists with advanced degrees will have best employment prospects. Competition for these wellpaying jobs will be progressively intense.





EMPLOYER PERSPECTIVE

What they seek

What do employers want?

Critical Thinking

- Problem
Solving

Oral/Written Communication

Teamwork – Collaboration

Digital Technology

Leadership

Professionalism

– Work Ethic

Career Management Global & Intercultural Fluency





What employers seek considering hiring an intern

- Education
- Expected date of graduation
- GPA
- Relevant coursework
- Relevant skills
- Part-time jobs
- Volunteer experience
- Student Involvement
- Achievements, travel, etc.

Packaged together in the form of a RESUME!





BUILDING YOUR SKILLS

Research/Internships/Co-ops

Benefits of Applied Learning (Internships/Research/Co-ops)

- All you to acquire real-world experience related to your major
- Test the waters before diving in!
- Develop professional skills/network

82% of UMBC students engaged in Applied Learning during their time at UMBC

57% of UMBC graduates for the class of 2019 accepted positions with companies where they interned/worked





UMBC Career Center Intern Success Practicum

(PRAC95/98/99)

Intern Success Practicum

- Independent course which accompanies an internship experience
- Open to all students with all majors/degrees
- 120 hrs./semester (8-10 hrs./week)
- Must be completed concurrently with internship/research experience





Intern Success Practicum: Benefit to UMBC Students

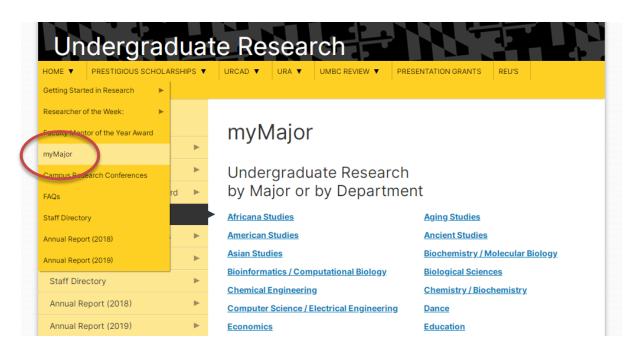
- Support of a career professional
- Promotes goal setting
- Self-reflection/evaluation
- Professional development activities designed to increase workplace competencies
- Develop a professional network





Office of Undergraduate Research

https://ur.umbc.edu/







OPPORTUNITIES

Where to look

How to secure on-campus research experience

- Be proactive start looking 2-3 months (or perhaps an entire semester) ahead of when you would be looking to start.
- Be willing to volunteer most faculty are unable to pay undergraduates
- Be open about your time and experience
 - <u>Academic year:</u> try to identify 2-3+ hour chunks of time during your week that you can devote to research. Be up front with your academic obligations...remember that you're a student first!
 - <u>Summer/Winter:</u> identify large chunks (perhaps 3 full days a week or more) that you can offer.
 Be up front with any planned vacations or academic activities.
- Speak with your academic advisor and your current professors. Get to know them and visit their office hours, as they can serve as excellent references.
- Be persistent and follow up! Faculty are busy people...







Finding off-campus experiences

- Research Experiences for Undergraduates (REUs) host institutions
 - NSF REU website: https://www.nsf.gov/crssprgm/reu/reu_search.jsp
 - Applications typically open Nov./Dec. and close December-March
- UMBC Office of Undergraduate Research has a list of off-campus research experiences: ur.umbc.edu/summer-research
- Explore your local community
 - Art apprenticeships or museums
 - Local hospitals or research centers
 - Federal government (NIH, NASA, etc.)







How to secure off-campus experiences

- Have a strong GPA; off-campus research opportunities can be competitive. You'll have to submit your unofficial transcripts.
- Establish relationships with faculty, mentors, and academic advisors at your institution who can write you strong letters of recommendation. Typically, you will need three letters.
- Develop a well-crafted personal statement that you can update for each opportunity.
- Have your resume up-to-date and ready to go!
- Visit the Career Center for help with resumes and personal statements.







EXPLORE YOUR INTERESTS

Build your knowledge

You are a sponge







Ways to learn more: take action!

- Job shadowing
- Volunteering
- Reading/Internet/Podcasts/TedTalks
- Get to know professors
- Join student/professional organizations
- Informational interviews





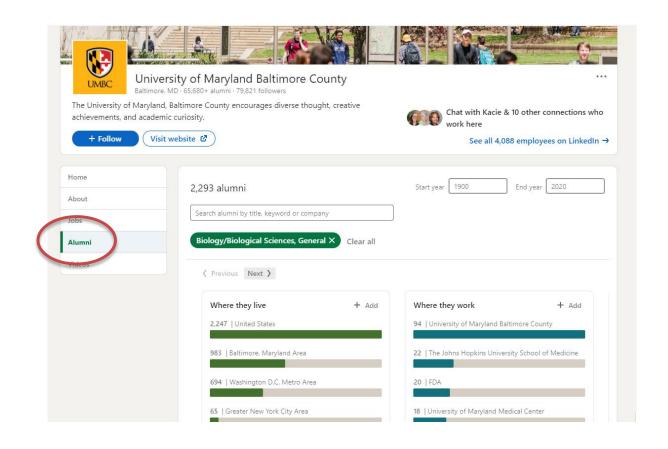
Whom should you pursue?

- Professors
- Internship/Research colleagues
- Professionals you meet at conferences
- Alumni from UMBC
- Connections in your LinkedIn network
- Employers on campus at information sessions/career fairs
- Others?





Alumni on LinkedIn







Tips for a successful journey

- Be curious
- Read outside your discipline
- Talk to people
- Listen to people!
- Be flexible
- Be courageous





UMBC Career Center

Employer Events/Programs

Career Center Virtual Events

- Intern Week (10/12-1016)
- Grad School 101 series (10/14 & 10/15)
- Diversity Recruitment Event (10/22)
- Networking & Info Session: NIH, Department of Bioethics (11/5 & 11/12)
- Inside Scoop: Careers in Bio-Manufacturing & Pharmaceuticals (2/22/21)(employer panel)





Calendar

https://careers2.umbc.edu/calendar/

Calendar			Accommodati	on Stateme
Month Past Upcoming	Filter: All Recruiting & Career Events: All Sponsors 🕶			
Event	Day	Date	Time	Location
Inside Scoop: Careers in Business and Finance	Mon	10/12/2020	12:00-1:00 pm	Online
Networking & Info Session: Operation Wallacea	Mon	10/12/2020	1:00-2:00 pm	Online
Networking & Info Session: National Consortium for the Study of Terrorism and Response to Terrorism	Tue	10/13/2020	1:00-2:00 pm	Online
Virtual Idealist Grad School Fair	Wed	10/14/2020	1:00-4:00 pm	
Networking & Info Session: Operation Wallacea	Wed	10/14/2020	3:00-4:00 pm	Onlin
Grad School 101: Navigating the Application Process	Wed	10/14/2020	4:00-5:00 pm	Onlin
Networking & Info Session: BAE Systems	Thu	10/15/2020	3:00-4:30 pm	Onlin
Grad School 101: Personal Statements that Get Attention	Thu	10/15/2020	4:00-5:00 pm	Onlin
Networking & Info Session: McLarty Associates	Fri	10/16/2020	12:00-1:00 pm	Onlin
Virtual Idealist Grad School Fair	Fri	10/16/2020	1:00-4:00 pm	
Networking & Info Session: Northwestern Mutual Mid-Atlantic	Mon	10/19/2020	3:30-5:00 pm	Onlin
Networking & Info Session: Operation Wallacea	Mon	10/19/2020	7:00-8:00 pm	Onlin
Networking & Info Session: Board of Governors of the Federal Reserve System	Tue	10/20/2020	1:00-2:30 pm	Onlin



Next steps...

- STEP 1: Follow the Career Center myUMBC group
- STEP 2: Create/update your resume (schedule an appointment via UMBCworks)
- STEP 3: Bookmark Career Center's website
 - Tools for Exploring Majors & Careers: Vault & Buzzfile
- STEP 4: Identify 3 people to contact to request an informational interview
 - Craft your email; attach your resume
 - Follow up!





Schedule an appointment via UMBCworks

- Login to UMBCworks
- Click "Schedule Appointment"

OR

Call Career Center at 410-455-2216



ANNOUNCEMENT

RESUMANIA 2014: Drop-In Resume Reviews

Need resume help before the Career Fair? Drop-In and get your resume reviewed and approved on UMBCworks TODAY, 10/6 and TUESDAY, 10-7 from 10AM to 4PM.

All Drop-Ins will be held in the Career Services Center on the 2nd Floor of the Math/Psych Building. Please upload your resume to UMBCworks in advance!

No appointment needed!



Make Your Appointment Online to See Us!

Schedule Appointment

MAKE AN APPOINTMENT ON-LINE VIA UMBCworks

TODAY to meet with a Career Specialist or member of the Internship & Employment Team, OR call the Career Services Center front desk at 410-455-2216. Students attending SHADY GROVE should contact 301-738-6338 or usgcareerservices@umd.edu to schedule an appointment.

NETWORK



MORE

- Work PRAC Requirements
- My Activity Summary
- Career Explorer
- View Document Library

GETTING STARTED

- Account Created
- Personal Profile
- Academic Profile
- Privacy Settings
- Resume



Get Connected – Stay Connected



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facebook.com/UMBCcareers



Follow us!



Follow us in MyUMBC









Read the Jobs-Internships and Events & Opportunities emails each week





Questions?







Thank you!

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