

FOCUS 2

FOCUS 2 is an online career assessment and advising tool that matches career options with majors offered at Cowley. Students can take assessments based on work interests, personality, leisure interests, values, and skills. The assessment results are then combined to suggest relevant occupations. A variety of occupational information is available including outlook, salary, degree requirements, etc.

A direct link to Focus 2 can be found on Cowley's Career Assessment Resources page:

<https://www.cowley.edu/learn-at-cowley/career-support/career-assessment-resources/index.html>

The screenshot shows a web browser window with the URL [cowley.edu/learn-at-cowley/career-support/career-assessment-resources/index.html](https://www.cowley.edu/learn-at-cowley/career-support/career-assessment-resources/index.html). The page features a navigation menu with several items, each in a light yellow box. At the top of the menu, there are controls: "+ Expand All" and "- Collapse All". The "FOCUS 2" item is currently collapsed, indicated by a minus sign. A red arrow points to the "FOCUS 2" link in the menu. Below the "FOCUS 2" item is a "Back to Top" link with an upward-pointing arrow. Other items in the menu include "Learning Express", "Student Interest Survey for Career Clusters", "MyFuture.com", and "PersonalityType.com".

+ [Expand All](#) - [Collapse All](#)

- **FOCUS 2**

FOCUS 2 is an online resource that combines self-assessment, career and major ex results match career options and majors/programs offered at Cowley. FOCUS 2 gui to help them select their majors, make informed career decisions and take action.

[FOCUS 2](#)

^ [Back to Top](#)

+ [Learning Express](#)


+ [Student Interest Survey for Career Clusters](#)

+ [MyFuture.com](#)

+ [PersonalityType.com](#)

Students will be directed to this Login page. If the student is a NEW USER, he/she will need to **REGISTER** first.

Login



Cowley College Contact Information

FOCUS 2 CAREER - A Career, Major and Education Planning System

USER NAME

PASSWORD

[Forgot password?](#)

Don't have an account?
Create your own personal account now

[Terms and Conditions](#)

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Students must enter the Access Code **tigers** to be identified as a Cowley student.

Create an Account



Cowley College Contact Information

PERSONAL DETAILS

* Required

YOUR ACCESS CODE *

tigers

FIRST NAME *

John

LAST NAME *

Smith

EMAIL *

smithj541987@cowley.edu

CONFIRM EMAIL *

smithj541987@cowley.edu

ACCOUNT INFORMATION

USER NAME *

smithj

PASSWORD *

CONFIRM PASSWORD *

YOUR STATUS *

Full Time Student

YOUR LOCATION *

Arkansas City

COWLEY ID (999#) *

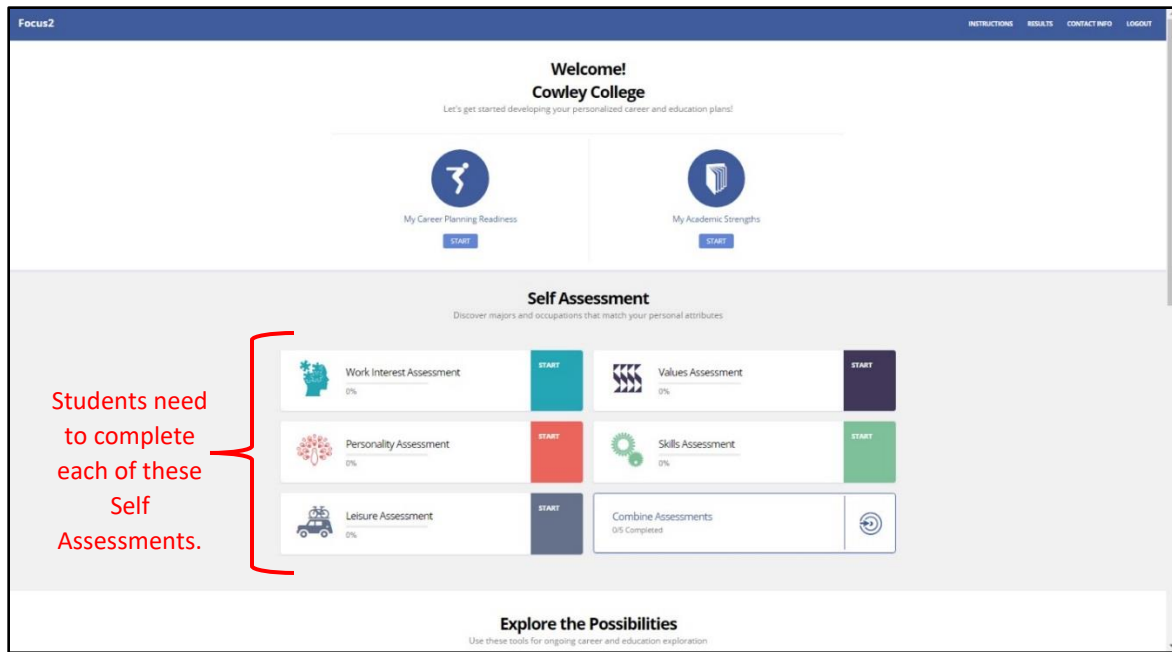
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CANCEL

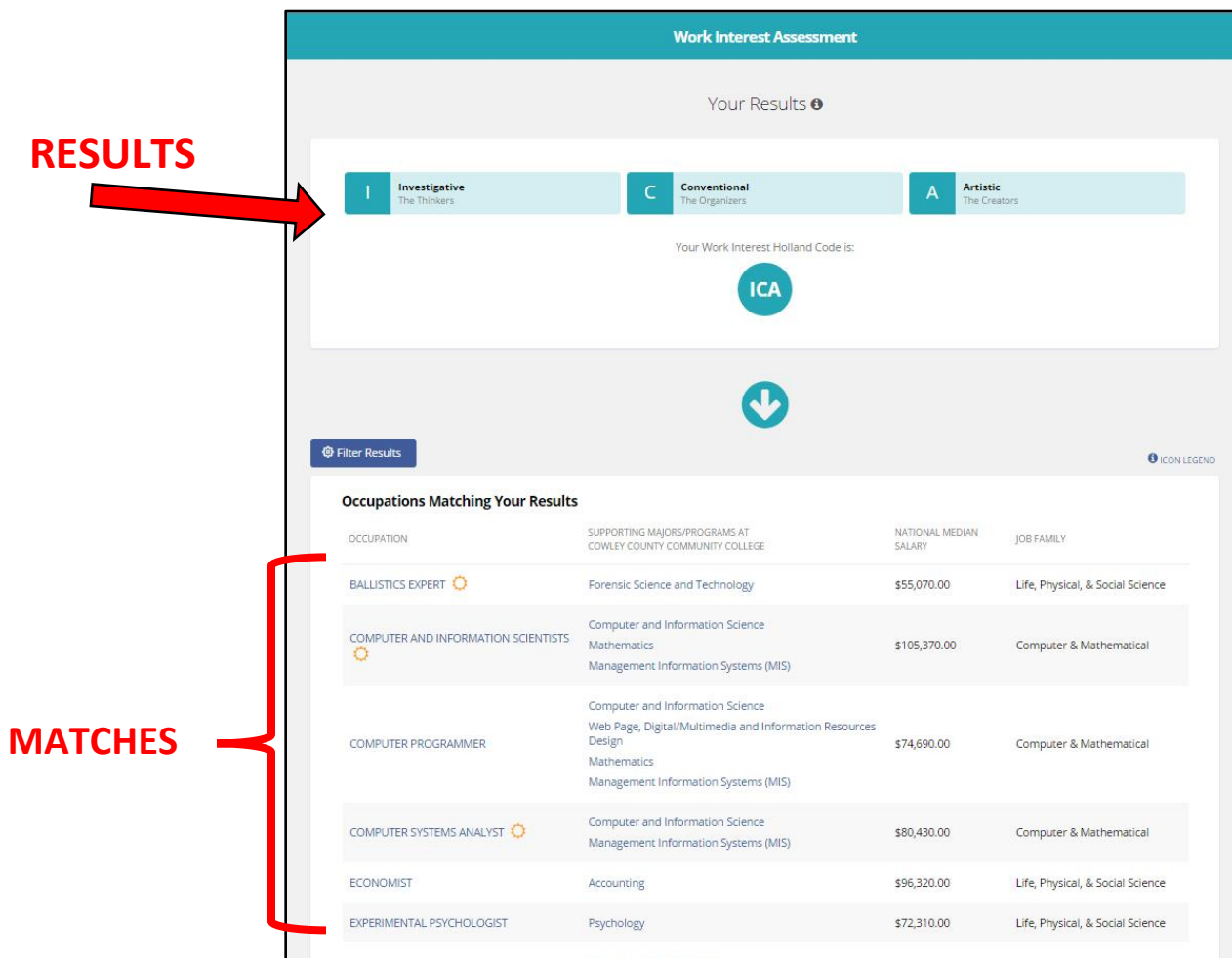
CONTINUE

Once the student is registered and logged in, he/she is ready to begin the assessment process.



Students need to complete the five **Self Assessments** (Work Interest, Personality Assessment, Leisure Assessment, Values Assessment, and Skills Assessment). Each assessment takes only a few minutes.

After each assessment is completed, FOCUS 2 displays the individualized results and gives suggested occupations that match the results:



After completing ALL five assessments, students should click on “Combine Assessments” in order to compile all of their results together and view the best fit occupation suggestions.

Combine The Results

Combine Your Assessment Results to Create a List of Best Fit Occupations ⓘ
Select The Assessments You Would Like To Combine

Work Interest Leisure Interest Skills Personality Values

CONTINUE

Filter Results ICON LEGEND

No occupations appear in 5 of the Assessments.

3 Occupations appear in 4 of the Assessments you have Completed.

37 Occupations appear in 3 of the Assessments you have Completed.

275 Occupations appear in 2 of the Assessments you have Completed.

37 Additional Occupations appear in 2 of the Assessments you have Completed.

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Students are able to explore their options further by matching majors offered at Cowley College, researching any area of study or occupation, and comparing occupations side by side.

Explore the Possibilities
Use these tools for ongoing career and education exploration

What can I do with a major in ... at Cowley County Community College? ⓘ

Explore any Area of Study ⓘ

Explore any Occupation ⓘ

Explore Occupations by Job Family ⓘ

Compare 2 Occupations Side by Side ⓘ

Take Action
Create a road map of your academic and career development activities

My Education My Professional Development


Students are able to view all majors that are offered at Cowley, identify which ones are suggested based upon assessment results, and see what can be done with each major.

What can I do with a major in at Cowley County Community College		
Filter Results		SEE LEGEND
PROGRAMS OF STUDY	SAVED	SUGGESTED
Accounting ASSOC	-	
Accounting Technology and Bookkeeping ASSOC	-	
Administrative Assisting and Secretarial Science CERT ASSOC	-	
Agribusiness/Agricultural Business Operations ASSOC	-	-
Agriculture ASSOC	-	
Anthropology ASSOC	-	
Applied Technology . ASSOC	-	-
Art ASSOC	-	-
Athletic Training ASSOC	-	-
Automobile/Automotive Mechanics Technology CERT ASSOC	-	-
Biology/Biological Sciences ASSOC	-	
Business Administration and Management CERT ASSOC	-	
Chemistry ASSOC	-	
Child Care and Support Services Management . CERT ASSOC	-	-
Child Development ASSOC	-	
Chiropractic . ASSOC	-	
Commercial and Advertising Art ASSOC	-	-
Computer and Information Science ASSOC	-	
Computer and Information Systems Security/Information Assurance . ASSOC	-	
Cosmetology . CERT ASSOC	-	-
Creative Writing ASSOC	-	-
Criminal Justice / Police Science CERT ASSOC	-	-
Dental Hygiene/Hygienist ASSOC	-	
Dentistry ASSOC	-	

A detailed occupation view includes an overview, task description, education requirements, outlook, salary information, and much more.

Occupation Details

Biomedical Engineer ○



Occupation Overview

Biomedical engineers design life support equipment using medical and engineering principles. They develop and experiment with equipment such as artificial human organs, medical prostheses, heart lung machines, and dialysis filtering devices.

Biomedical engineers may be responsible for: repair and adjust prostheses, test a patient's response to a new device, and offer their professional services. Curriculum background should include biomedical engineering, bioethics, physiology, biomechanics and anatomy. Computer-related knowledge is essential.

[Back to Occupations](#)
[List This Occupation](#)
[Print](#)

Show All Hide All

Job Tasks

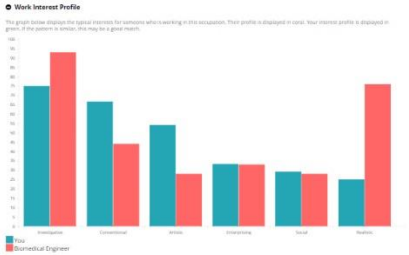
This section supports the design process to find new ways to design human life support equipment using engineering and biological principles. They become mathematical models to simulate human design processes in order to predict the success of new life support equipment and aids.

This category of job tasks includes the activities for testing and evaluating devices. Biomedical engineers may repair and adjust prostheses, artificial organs and limbs, etc.

This section will provide and suggest about the problems they encounter during implementation of a new device and the experiences and history view of patients using the new devices.

Work Interest Profile

The graph below displays the typical interests for someone who is working in this occupation. Their profile is displayed in red. Your interest profile is displayed in green if the person is similar to you for a given month.



Skills

- Decision-Making**
Weighing out the options in evaluation or judgment and logically choosing the best course of action.
- Designing**
Analyzing requirements for a new product or service and creating a design to satisfy those needs.
- Listening**
Participating in what other people are saying and taking time to understand the points being made.
- Manual Dexterity**
Using your hands to operate fine instruments and precision tools.
- Problem Solving**
Using scientific methods, logical-based information, analysis and various systems, and implement a solution.
- Quality Control**
Inspecting and testing products or services to assure they meet the desired specifications.
- Reading Comprehension**
The ability to understand written paragraphs, instructions, or reports.
- Reasoning**
Using logic to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.
- Science**
Using scientific methods to manage and conduct experiments.

Values

- Creativity**
Creating new ideas, programs, things, or anything else not previously developed by another person.
- Income**
Being a level of income that will affect your health, leisure, and which will allow you to become financially independent.
- Independence**
Being able to decide on how to get something done without significant direction from someone else.
- Physical Things**
Working or playing with equipment or material things.
- Tangible Results**
Doing something where you can physically see the results of your work.

Education Requirements

People who enter this occupation with more than one type of credential. The following are the most common:

- Bachelor's Degree
- Master's Degree
- PhD or Doctoral Degree

Major/Area of Study at Cowley County Community College:

- Biology/Biological Sciences**
Life Sciences
A general program of biology or the interdisciplinary field based on a program in biology or the biological sciences that is undifferentiated as to its content. Includes instruction in general biology and programs covering a variety of biological specializations.
- Engineering**
Engineering
A program that generally prepares individuals to apply mathematical and scientific principles to solve a wide variety of practical problems in industry, social organization, public works, and operations.
- Environmental Science**
Environmental Science
A program that focuses on the application of biological, chemical, and physical principles in the study of the physical environment and the relation of environmental problems, including factors such as air quality, environmental pollution and degradation, the interaction between human activity and the natural environment, and social resource management. Includes instruction in biology, chemistry, physics, geosciences, environmental science, and environmental planning.
- Other Common Major/Area of Study:**
 - Agricultural Engineering**
Agricultural Engineering
A program that prepares individuals to apply mathematical and scientific principles to the design, development and operational maintenance of systems, equipment and facilities for production, processing, storage, handling, distribution and use of food, fiber, and forest. Includes applications in aquaculture, forestry, human and natural resources.
 - Biological/Bioystems Engineering**
Biological/Bioystems Engineering
A program that prepares individuals to apply mathematical and scientific principles to the design, development and management of biological systems and include applications in biology, biotechnology, history, and microbiology. Includes instruction in organic chemistry, microbiology, biochemistry, physical, biological, and environmental engineering, biotechnology, genetic systems, clinical and hospital design, clinical research, biological planning, and biotechnology and bioremediation.
 - Biophysics**
Biophysics
A program that focuses on the application of physics principles to the scientific study the mechanisms of biological processes and assemblies at all levels of complexity. Includes instruction in research methods and equipment operation and application to subjects such as biophysics, biophysical theory and modeling, electrophysics, membrane biology, chemical, transport and transporters, connectivity and neural function, protein shape and folding, neuronal and system-level structure and dynamics, and computational science.
 - Bioengineering**
Bioengineering
A program that focuses on the application of the biological sciences, biochemistry, and genetics in the preparation of new and enhanced agricultural, environmental, clinical, and medical products, including the treatment of diseases, health, and safety. Includes instruction in biotechnology, genetic engineering, gene identification, the application of molecular genetics, biological chemistry, manufacturing, DNA cloning, and microorganismal genetic engineering. Includes microbiology, drug and biologic development, enzyme based production processes, plant use, biotechnology, multiplexing and marketing, application regulations, and bioinformatics ethics.
 - Cell Biology and Anatomy**
Cell Biology and Anatomy
An integrative and rigorous program that focuses on the scientific study of cell structure, function, and behavior within the context of organismal, regional, and global anatomical systems. Includes instruction in molecular biology, and biology and histology, structural biology, anatomy, embryology, endocrinology, and applications to health, sports, disease, fitness, and genetics.
 - Cellular and Molecular Biology**
Cellular and Molecular Biology
An integrative and rigorous program that focuses on the scientific study of cells, cellular systems, and the molecular basis of cell structure and function. Includes instruction in cell biology, cell chemistry, molecular biology, biophysics, and structural biology.
 - Microbiology**
Microbiology
A program that focuses on the scientific study of unicellular organisms and colonies, and subcellular genetic matter and their ecological interactions with human beings and other life. Includes instruction in microbial genetics, cell biology, cell physiology, energy, pathogenic microbiology, environmental microbiology, microbiology, bioinformatics, and laboratory methods including microscopy.
 - Molecular Biochemistry**
Molecular Biochemistry
A program that focuses on the scientific relationship of physiological function to the structure and actions of macromolecules and macromolecular assemblies such as nucleic acids, proteins, membranes, and tissues. Includes instruction in the chemical mechanisms of regulatory and catalytic protein synthesis and other synthesis, and biomolecular reaction mechanisms.

Outlook

Employment in this field is projected to grow 14% or higher from 2014 to 2024, which is much faster than the average growth rate for all occupations.

Earnings

Median annual wages in this career generally range between \$36,560 and \$110,000 per year. Exceptional performance can earn in excess of \$123,270. These figures are based on data reported from the US Department of Labor.

Professional Association

Society for Engineering in Medicine & Biology, 1301 Connecticut Avenue, NW, Washington, D.C. 20036
 Biomedical Engineering Society, 3485 Corporate Dr., Suite 225, Landover, MD 20785-2224
 Website: www.bmes.org

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