

BIOCOMPUTE OBJECT APP-A-THON

JUDGING INFORMATION

BEGINNER TRACK JUDGING CRITERIA

- Basic Qualifications category contains criteria worth **5** points each (all or nothing)
- Documentation category contains 5 criteria for a maximum of **5** points
- Bonus category contains criteria where point values **0 – 2** are awarded

Basic Qualifications – 5 pts per criteria (all or nothing)

Criteria	5
Conforms with specifications (1.3.0) based on validate.py script	<input type="checkbox"/>
BCO includes provenance	<input type="checkbox"/>
BCO includes prerequisites	<input type="checkbox"/>
BCO includes scripts (or working pointers)	<input type="checkbox"/>
BCO documents a valid computational pipeline	<input type="checkbox"/>

Documentation – Max 5 pts based on criteria below

Criteria	1
Submission includes detailed Usability Domain	<input type="checkbox"/>
Usability Domain includes purpose of the pipeline	<input type="checkbox"/>
Usability Domain includes references to help understand the application of pipeline	<input type="checkbox"/>
Usability Domain includes links to any associated materials that would help understand the application of the pipeline	<input type="checkbox"/>
Description Domain includes clearly named and documented pipeline steps	<input type="checkbox"/>

Bonus – Max 2 pts per criteria

Criteria	1	2
Creative use of keywords	<input type="checkbox"/>	<input type="checkbox"/>
Creative use of usability domain	<input type="checkbox"/>	<input type="checkbox"/>
Creative use of extension domain	<input type="checkbox"/>	<input type="checkbox"/>
Creative use of error domain	<input type="checkbox"/>	<input type="checkbox"/>
Reproducibility of BCO	<input type="checkbox"/>	<input type="checkbox"/>

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JUDGING INFORMATION

ADVANCED TRACK JUDGING CRITERIA

- Basic Qualifications category contains criteria worth **5** points each (all or nothing)
- Functionality and Usability & Aesthetics categories contain criteria where point values **0 - 5** are awarded
- Bonus category contains criteria where point values **0 - 3** are awarded

Basic Qualifications – 5 pts per criteria (all or nothing)

Criteria	5
BCO can be created	<input type="checkbox"/>
BCO can be displayed (only displaying JSON receives 0 points)	<input type="checkbox"/>
App checks conformance of any BCO to BioCompute Specification 1.3.0. Beginner track submissions will be used for testing.	<input type="checkbox"/>
Digital signature on BCO is verified	<input type="checkbox"/>

Functionality – Max 5 pts based on criteria

Criteria	1	2	3	4	5
The tool takes user input to generate a BCO (Platform integrated tools can auto-fill information as appropriate to the platform)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tool correctly identifies and reports deviations or errors from the specifications when evaluating BCOs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tool displays a BCO in a user-friendly, understandable display	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Documentation – Max 5 pts based on criteria below

Criteria	1	2	3	4	5
Submission includes plain text README	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
README includes purpose of the app	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
README includes references to help understand the app	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
README includes links to any associated materials that would help understand the app	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
README includes clearly named and documented steps to create a BCO	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Usability & Aesthetics – Max 5 pts based on criteria

Criteria	1	2	3	4	5
Installation instructions and a working example are provided	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aesthetic appeal based on user interface design and ease of user interactions, e.g., providing a GUI rather than CLI	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Conformance checking output is easy to understand by someone not very familiar with the BCO Spec	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tooltips, prompts or other information to help users understand what information should be put into fields that are filled out manually	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Bonus – Max 5 pts based on criteria

Criteria	1	2	3
Tool includes clearly documented features beyond minimum requirements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tool can be updated easily when new versions of the BCO standard are released	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tool is future proof – can handle more than one version of a BCO spec	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tool provides a means to compare more than one BCO at a time (e.g. an original and revised BCO)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tool supports following links and URLs in BCO	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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BADGES

Bronze

- All the Basics – full score in the Beginner Track Basic Qualifications category
- Documented – full score in the Beginner Track Documentation category
- BCO Bonus – received a score in all the Beginner Track Bonus criteria
- All the Advanced Basics – full score in the Advanced Track Basic Qualifications category
- Functional – received a score in each of the Advanced Track Functionality criteria

Silver

- Documentation Expert – Full score in the Beginner Track Documentation category
- All the Advanced Basics – full score in the Advanced Track Basic Qualifications category
- Advanced BCO Bonus - received a score in all the Advanced Track Bonus criteria

Gold

- Not a Beginner – Full score in the Beginner Track
- Fully Functional - received a top score in each of the Advanced Track Functionality criteria
- Documentation Master– Full score in the Advanced Track Documentation category
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Platinum

- Platinum Beginner BCO - All Beginner Badges awarded
- Platinum BCO - All other Badges awarded