



# Laboratory Capabilities Tool

Aviation Laboratories of the U.S.A.

Show/Hide Map

## Laboratory Capabilities Tool Admin User's Guide



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# Laboratory Capabilities Tool

## Laboratory Capabilities Tool Web Address:

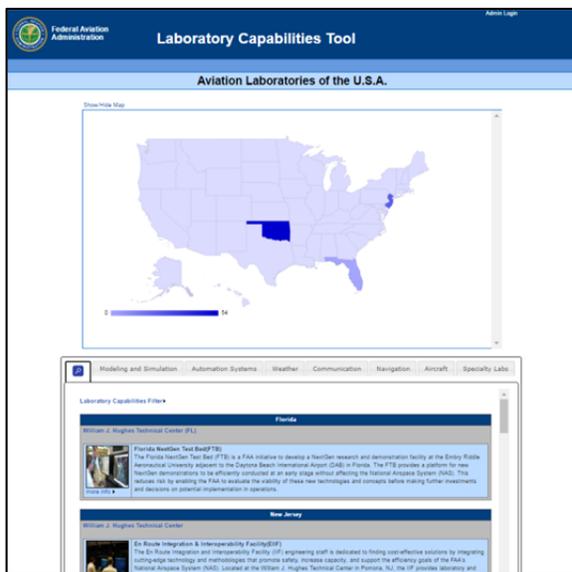
<https://labcapabilities.npn.faa.gov>

### Description:

The As-Is Laboratory Guide is a database, dynamically generated front-end to display current aviation laboratory information. The information will be provided and maintained by participating laboratory personnel. That is, the individual laboratories are responsible for their own information. A participating laboratory can register a representative to act as a Laboratory Guide Administration User.

The Laboratory Guide (v1.0) consists of four levels of data. Each page contains a breadcrumb type navigation bar title at the top of the page, along with the individual page content.

The initial two pages geographically display the locations of Aviation Laboratories in the United States via google chart maps and include a corresponding list of aviation laboratories. At each level the laboratory list can be filtered by the domain tabs or by the "Laboratory Capabilities Filter" drop-down search filter.



The next page consists of laboratories at the facility level grouped by domain tabs. Labs may belong to one or multiple domains as applicable. Currently a scrolling horizontal view displays the various lab images and names. The main body of the facility page contains a laboratory summary list as in the previous geographical pages.

The final page represents the full laboratory detail.

# Laboratory Capabilities Tool Administration

## User Registration

Registering as a Laboratory Guide Administration user is a relatively easy process. Users will provide basic contact information through a registration form accessed by clicking the [“\\*Register New User”](#) link at the bottom of the “Login” form.



The login form contains two input fields: "User Id (email address)" and "Password". Below the fields is a "Login" button and a red link labeled "\*Register New User".



The registration form includes fields for "First Name" (Zack), "Last Name" (Bocelle), "eMail Address" (zack.bocelle@faa.gov), and "10 Digit Phone Number" (6094858761). It also has a "Password" field with a strength indicator showing "Strong" and a "Confirm password" field. A "Register User" button is at the bottom. A "TERMS OF USE" section is expanded, showing the agreement text and a checked checkbox for "I agree to the terms of use."

A registration confirmation email will be automatically sent to the email address provided. The email will contain a link back to a confirmation page to verify the registration of the newly registered user.

**Important:** Due to our current web-server location only FAA email addresses will be able to be contacted for confirmation. Confirmation emails may not reach any other addresses used.

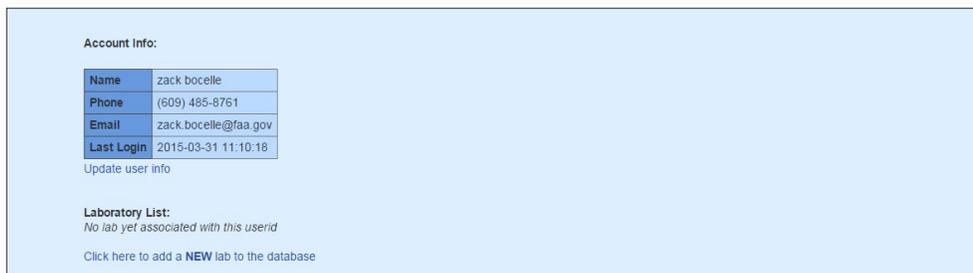
Login with the email address and password provided on the registration form to complete the confirmation process



The confirmation login form has "User Id (email address)" (zack.bocelle@faa.gov) and "Password" (masked) fields, with a "Confirm" button.

**zack,** Congratulations on successfully activating your account. Please click [HERE](#) to continue.

Clicking the “HERE” link in the successful confirmation message or the “Admin” link in the breadcrumb bar displays the Laboratory Guide Admin User page.



The user account page shows "Account Info:" with a table of details: Name (zack bocelle), Phone ((609) 485-8761), Email (zack.bocelle@faa.gov), and Last Login (2015-03-31 11:10:18). Below the table is an "Update user info" link. The "Laboratory List:" section shows "No lab yet associated with this user id" and a link to "Click here to add a NEW lab to the database".

## Laboratory Capabilities Tool Administration

### Add a Laboratory

The user's laboratory list will initially be empty until the user provides basic laboratory information. This can be done by clicking the "[Click here to add a NEW lab to the database](#)" link and submitting the completed form.

The screenshot shows the 'Add Laboratory' form in the Laboratory Guide Administration tool. The form is titled 'Add Laboratory' and contains the following fields:

|                      |                       |
|----------------------|-----------------------|
| Laboratory Name      | Laboratory Short Name |
| Test Laboratory One  | TN1                   |
| Contact First Name   | Contact Last Name     |
| Zack                 | Bocelle               |
| Contact Email        | Contact Phone         |
| zack.bocelle@faa.gov | 6094858761            |

Below the form is an 'Add Laboratory' button. To the right of the form, a confirmation message is displayed:

**Record inserted successfully**  
Lab Id: 51  
User Id: 1  
Lab Name: Test Laboratory One  
Lab Short Name: TN1  
Contact Name: Zack Bocelle  
Phone: 6094858761  
eMail: zack.bocelle@faa.gov

After the laboratory is created, the user can click "[Continue with this lab](#)" to enter/update information regarding the particular laboratory. The "Lab Survey" page allows the user to enter full laboratory detailed information along with images to be displayed on the "Lab Summary" and "Lab Detail" pages.

The "Lab Survey" page is partially displayed initially. The various functionality sections may be expanded and collapsed by clicking individual section links or the "[Expand All|Collapse All](#)" toggle link at the top of the survey.

Fields marked with a red asterisk (\*) are required for lab data to be published.

The screenshot shows the 'Lab Guide Survey' form in the Laboratory Guide Administration tool. The form is titled 'Lab Guide Survey' and contains the following sections:

- Laboratory Contact Information**: Fields for Contact First Name (Zack), Contact Last Name (Bocelle), Contact Title, Contact Email (zack.bocelle@faa.gov), and Contact Phone (6094858761).
- Laboratory Location Information**: Fields for Laboratory Facility (William J. Hughes Technical Center), Laboratory Address (Atlantic City International Airport), Address2, City (Atlantic City), State (NJ), and Zip (08405).
- Laboratory Information**: Fields for Laboratory Name (Test Laboratory One), Laboratory Short Name (TN1), Division, Routing Symbol (ANG-E141), Laboratory Official Web Site URL (http://www.faa.gov/about/office\_org/headquarters\_offices/ang/offices/tc/about/campus/faa\_host/labs/cs\_team/), and Laboratory Purpose/Summary (This is the NEW summary!).

# Laboratory Capabilities Tool Administration

## Publishing Laboratory Data



Laboratories may only be published from the “Admin” page when all necessary data fields are completed. Until then the “published” check box and “submit” button will not be available.

When all the required data points are populated the lab may be published by checking the “Published” checkbox, clicking the “Submit” button and responding “OK” to the alert box.

## Updating Published Laboratory Data

Laboratory data may be updated at any time regardless of its “Published” state. All updates will be stored as separate “Draft” data until it is published. Until that time, the previously published data remains in effect.

In order to publish new draft data a user must first place the laboratory in an unpublished state by un-checking the “Published” checkbox from the “Admin” page, clicking the “Submit” button, and responding “OK” to the alert message.

At any time that “Published” and “Draft” data exists simultaneously the user may toggle between data sets on the “Update Laboratory” page.

# Laboratory Capabilities Tool Administration

## Survey To Lab Detail Page Relationship

**Lab Guide Survey**  
Expand All | Hide All

**Laboratory Contact Information**

The following data was retrieved from currently PUBLISHED Lab Guide data.

|                       |                    |   |
|-----------------------|--------------------|---|
| *Contact First Name   | *Contact Last Name | Contact Title                                       |
| Patrick               | Kelly              | Integration and Interoperability Facilities Manager |
| *Contact Email        | *Contact Phone     |   |
| patrick.kelly@faa.gov | 8004857202         |   |

**Laboratory Location Information**

|                                    |                    |        |
|------------------------------------|--------------------|--------|
| *Laboratory Facility               | Address2           |        |
| William J. Hughes Technical Center | Bldg 27a           |        |
| *Laboratory Address                | *City              | *State |
| William J. Hughes Technical Center | Atlantic City Int. | NJ     |
|                                    |                    | *Zip   |
|                                    |                    | 08405  |

**Laboratory Information**

|  |                       |
|--|-----------------------|
| *Laboratory Name   | Laboratory Short Name |
| En Route Integration & Interoperability Facility   | EIF                   |
| Division   | Routing Symbol        |
| Concepts & Systems Integration Team  | ANG-E141              |
| Laboratory Official Web Site URL   |                       |
| http://www.faa.gov/about/office_org/headquarters_offices/lang/offices/about/campus/faq_host/labels_team/EIF  |                       |
| *Laboratory Purpose/Summary (1152 characters left)   |                       |
| The En Route Integration and Interoperability Facility (EIF) engineering staff is dedicated to finding cost-effective solutions by integrating cutting-edge technology and methodologies that promote safety, the FAA's National Airspace System (NAS). Located at the William J. Hughes Technical Center, the EIF provides engineering services supporting En Route infrastructure. |                       |
| *Laboratory Mission (1777 characters left)   |                       |
| The EIF engineering staff is dedicated to finding cost-effective solutions by promoting safety, increasing capacity, and supporting the efficiency goals of the FAA.   |                       |
| *Laboratory Description (4272 characters left)   |                       |
| The EIF facility is available 24 hours per day / 7 days per week. It is a fully integrated facility that may be conducted at the EIF consist of the following:   |                       |
| <ul style="list-style-type: none"> <li>Research and development</li> <li>Proof-of-concepts</li> <li>Engineering assessments</li> <li>Early program integration</li> <li>Program risk reduction activities</li> </ul>   |                       |
| *Laboratory Special Features (1078 characters left)  |                       |
| The EIF is functionally equivalent to an En Route Air Route Traffic Control Center. Unlike other En Route Air Route Traffic Control Center laboratories that must maintain a rigid baseline, the EIF is easily reconfigurable for integration of new systems and prototypes into the EIF NAS subsystems. The EIF contains the following fielded En Route subsystems:                 |                       |
| <ul style="list-style-type: none"> <li>En Route Automation Modernization (ERAM)</li> <li>Host and Oceanic Computer System Replacement (HOCER) Phases 1-4</li> <li>Display System Replacement (DSR)</li> </ul>  |                       |
| *Laboratory Domain(s) (*check at least one)  |                       |
| <input checked="" type="checkbox"/> Modeling and Simulation <input checked="" type="checkbox"/> Automation Systems <input checked="" type="checkbox"/> Weather <input checked="" type="checkbox"/> Communications  |                       |

**Federal Aviation Administration**

**Laboratory Capabilities Tool**

Federal Aviation Administration Labs | United States | New Jersey | WJHTC | NIEC

**NextGen Integration and Evaluation Capability Laboratory**

**Location**  
NextGen Integration and Evaluation Capability Laboratory  
William J. Hughes Technical Center  
Second floor of Building 300 near door 25 column E-19  
Atlantic City International Airport, NJ 08405

**Description**  
The NIEC leverages existing NAS operational systems and high fidelity, real-time simulation capabilities to create an integrated, flexible and reconfigurable environment that can be tailored for NextGen research as well as test and evaluation. The NIEC can provide a futuristic NextGen gate to give visualization environment with advanced data collection capabilities to support integration and evaluation of new technologies and concepts. The ability to provide a combined environment of legacy systems with future technologies and capabilities also enable the NIEC to support the transition to NextGen.

**Mission**  
The NIEC complements the unique NAS facilities and aviation based equipment located at the WJHTC.

**Special Features**  
The base components of the NIEC are from existing Technical Center laboratories and can be tailored for NextGen research and simulation as well as test and evaluation. The base components featured in NIEC floor plan figure are an Air Traffic Suite, a Cockpit Simulator, Unmanned Aircraft System Suite, Tower Simulation area, and a multipurpose area. The multipurpose area can be used to display weather data, traffic management data, operate as a simulation monitoring station or simulate an airline operations center. Each of these NIEC components cover key areas in the NextGen Gate-to-Gate spectrum.

**Capabilities**  

- Simulation
  - Tower Sim - Tower Simulator
  - DESIREE - DESIREE ATC

**Simulation system software**

- EES - ERAM Evaluation System (EES)
- NIE - Virtual Airport Immersion Environment
- NITL Simulation - Real Time/Human in the Loop (NITL) Simulation Method

**Prototype Development**

- Software Dev - Software Prototype Development and Support

**Networking**

- LAN/WAN - LAN/WAN
- SPN - NextGen Prototyping Network
- ANG - Airport Access to 200M (ANG)
- NetCDF - Network Common Data Form (NetCDF)

**Aircraft Surveillance**

- DBRITE - Digital Bright Radar Indicator Tower Equipment
- WAAAS - Wide Area Augmentation System

**Communications**

- DATACOM - Data Comm

**Point of Contact**  
ANG-E142 Section Manager  
Gary Munker  
gary.munker@faa.gov  
(800)485-7453  
Official Website: [https://www.faa.gov/about/office/org/headquarters/offices/lang/offices/about/campus/faq\\_host/labels\\_team/NIEC](https://www.faa.gov/about/office/org/headquarters/offices/lang/offices/about/campus/faq_host/labels_team/NIEC)

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# Laboratory Capabilities Tool Administration

## Leaving Feedback

To leave feedback regarding the Laboratory Capabilities Tool or its administrative interface a link is provided at the top of the Admin Page.

The screenshot shows the 'Laboratory Capabilities Tool Administration' page. The header includes the Federal Aviation Administration logo and the text 'Federal Aviation Administration'. Below the header is a navigation bar with 'Federal Aviation Administration Labs', 'Admin', and 'Feedback >'. A welcome message reads 'Welcome: Zack (logout) Click here to view: Lab Capabilities Tool main page'. The main content area features a 'Laboratory Capabilities Tool Feedback' form with the following fields: 'Feedback Type' (a dropdown menu set to 'Comment'), 'First Name' (text box with 'Zack'), 'Last Name' (text box with 'Bocelle'), 'eMail Address' (text box with 'zack.bocelle@faa.gov'), and '10 Digit Phone Number' (text box with '6094858761'). A 'Feedback' text area contains the text 'This is the best tool ever!'. At the bottom of the form is a 'Submit Feedback' button.

The screenshot shows the 'Laboratory Capabilities Tool Administration' page after feedback submission. The header and navigation bar are identical to the previous screenshot. The main content area features a large light blue box with the following text: **Thank You!**  
Thank you for submitting your feedback.  
Whether your feedback was a suggestion, praise, or complaint we appreciate your time to help us improve upon the Laboratory Capabilities Tool.