

Provider Tutorial Gr-resQ tool + OSCM

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Description:

This tutorial will guide you on the process of managing a transaction (experiment) using the Gr-resQ tool and the OSCM platform. This tutorial is from the provider perspective.

A provider is the person who runs a transaction or experiment in a CVD furnace. The transaction is created by a customer and shared with the provider. All results coming from the experiment will be attached to the transaction, so the customer could use them for further analysis.

Workflow:

1. Create an OSCM account.
2. Provide CDV facility access to the customer.
3. Manage a transaction (experiment).
4. Attach results to a completed transaction.

Steps:

1. Create an OSCM account:

There are two ways of creating an OSCM account: a) from the official OSCM website (<https://oscm-il.mechse.illinois.edu/>) or b) using the Gr-resQ tool.

a) From OSCM:

- Open your Chrome browser and go to <https://oscm-il.mechse.illinois.edu/>
- Click on **Register** button.
- Fill in all required information. The only field that you do not need to fill out is the **"User Accounts"** field.
- To verify your new user account, access your email mailbox (the one that you provided when registering).
- Find the email sent by OSCM in your mailbox. Click on the provided link. Then, you are all set.

Register User

Basic Information

Your name Username E-mail netID@illinois.edu Phone Number (xxx) xxx-xxxx

User Location

Street Address State

Postal Code City Country

User Accounts

Add Banner accounts **ONLY** if you want to use the facility for research.

X-XXXXXXXX-XXXXXXXX-XXXXXX

Password

Your password MUST contain eight or more characters with at LEAST one capitalized and ONE special character.

Password Confirm Password

Figure 1: User registration from OSCM website

b) From Gr-resQ tool:

- Open the Gr-resQ tool.
- Click on **OSCM** tab. Then click on **Register** button.
- Fill in all required information. Then, click on **Submit** button.

python

Query SEM Analysis Submit OSCM

Log in Register

Name Username Email Phone

Street Address State AL

Zip Code City Country

Password Confirm Password

Figure 2: User registration from Gr-resQ tool

- To verify your new user account, access your email mailbox (the one that you provided when registering).
- Find the email sent by OSCM in your mailbox. Click on the provided link. Then, you are all set.

2. Provide CDV facility access to the customer.

- Open your Chrome browser and go to <https://oscm-il.mechse.illinois.edu/>
- Log in with your OSCM credentials.
- In the **MY RESOURCES** tab, find your facility. Click on **details**.

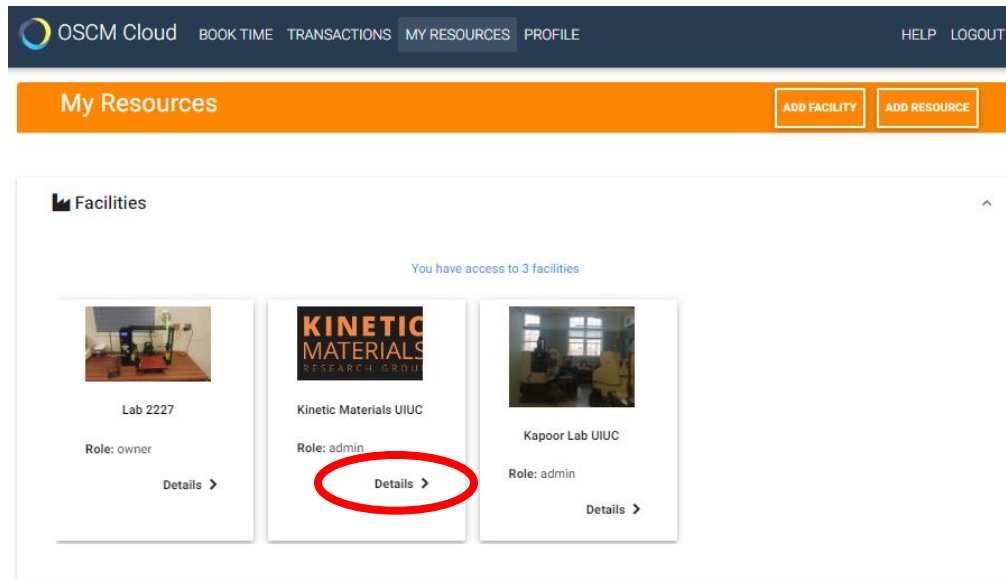


Figure 3: Find facility

- Click on **Users** tab, and then click on **Invite Users** button.

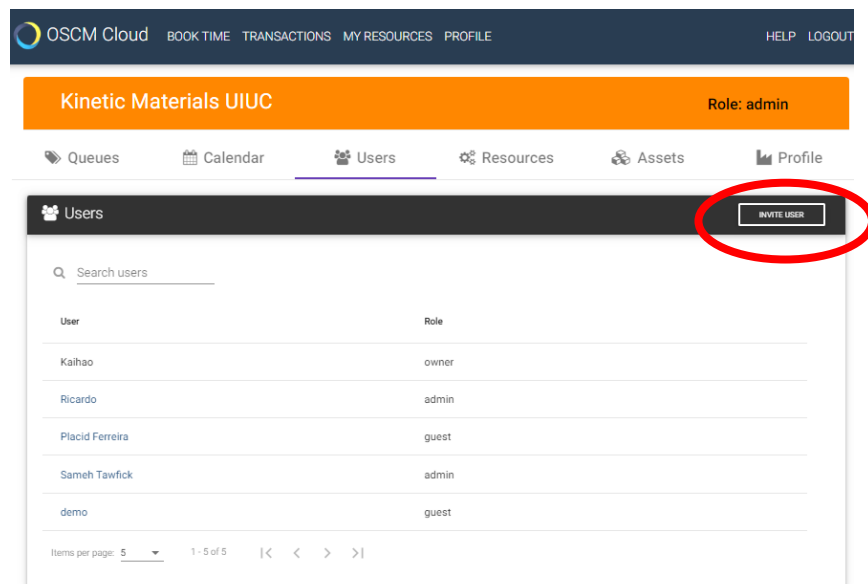


Figure 4: Users Tab

- Write down the username of the customer in the **Username** field. Select the **Guest** role in the **select role** dropdown. Finally, click on **Invite User** button.

OSC M Cloud BOOK TIME TRANSACTIONS MY RESOURCES PROFILE HELP LOGOUT

Invite User [BACK TO FACILITY](#)

Privileges:

Administrator

Have the following access:

- Facility:** See facility profile, edit a facility
- Users:** Invite and remove users for the facility
- Assets:** Add and remove assets, access to all asset in the asset's repository
- Transactions:** Access to all transactions and download transaction files

Operator

Have the following access:

- Facility:** See facility profile
- Users:** Cannot add/remove users for the facility.
- Assets:** Access to all asset in the asset's repository
- Transactions:** Access to all transactions and download transaction files

Guest

Have the following access:

- Assets:** Access to some authorized (assigned by owner/administrator) asset in the asset's repository
- Transactions:** Access to transactions that belong to the guest

Invite user [INVITE USER](#)

Username * myCustomer Select role * Guest Account number ☐ Allow all resources?

Figure 5: Complete customer invitation

3. Manage a transaction (experiment):

- Open your Chrome browser and go to <https://oscm-il.mechse.illinois.edu/>
- Log in with your OSCM credentials.
- In the **MY RESOURCES** tab, find your facility. Click on **details**.
- Click on the queue that you want manage. Then, all transactions are organized by status. The possible status for a transaction are: requested, accepted, in progress, completed, declined or cancelled.
- Click on any transaction for more details.
- To change the status of a transaction click on the status button of your desired. Example: if you want to approve a transaction, click on **Approve** button.

Transaction: t ✕

Basic Information Transaction Files File Upload

Resource: CVDs Facility Test Customer name: Test Status: requested

Provider name: Admin Customer email: torosant@illinois.edu Qty: 1

Provider email: torosant@illinois.edu Customer phone: (217) 600-9690

Instructions: s

[APPROVE](#) [DECLINE](#) [CLOSE](#)

Figure 6: Manage transaction (Accept transaction)

- If you want to decline a transaction, click on **decline** button. Then, select the reason from the listed options. If there is not an option that satisfies the reason of declining the transaction, click other and then provide more details.

Comments

What is the main reason for this decision?

Not enough funds to complete the job. Please come to the facility to add more funds.

Wrong file format. Please create a new transaction with the right file format

Inconsistent information in the requested transaction. Please come to the facility for more details.

other

Instructions: no special instructions for this job

APPROVE DECLINE CLOSE

Figure 7: Decline a transaction

- If you want to download the recipe file, click on **Transaction Files** tab. Then, click on **download** button. Save the file in any directory of your local computer.

Transaction: t

Basic Information Transaction Files File Upload

recipe.json

DOWNLOAD

APPROVE DECLINE CLOSE

Figure 8: Manage transaction (Download file)

4. Attach results to a completed transaction:

- If you want to attach any file after you completed the experiment, click on **File Upload** tab. Then click on **Choose Files** button. Browse and select the files in your local computer. Then, click on **Upload** button for each file.

Transaction: t

Basic InformationTransaction FilesFile Upload

Choose Files | No file chosen

Max. File size (100 MB)

Upload queue

Queue length : 2

Name	Size	Progress	Status	Actions
SEM_01.jpg	0.005 MB			<div>UPLOAD</div> <div>REMOVE</div> <div>CANCEL</div>
SEM_02.jpg	0.005 MB			<div>UPLOAD</div> <div>REMOVE</div> <div>CANCEL</div>

Queue progress:

CLOSE

Figure 9: Attach files to the transaction