

# Vanderbilt NMR Facilities

## SampleJet

July 2012

Currently, the 502 and 601 have a SampleJet mounted on top of the magnet to run samples in automation mode.

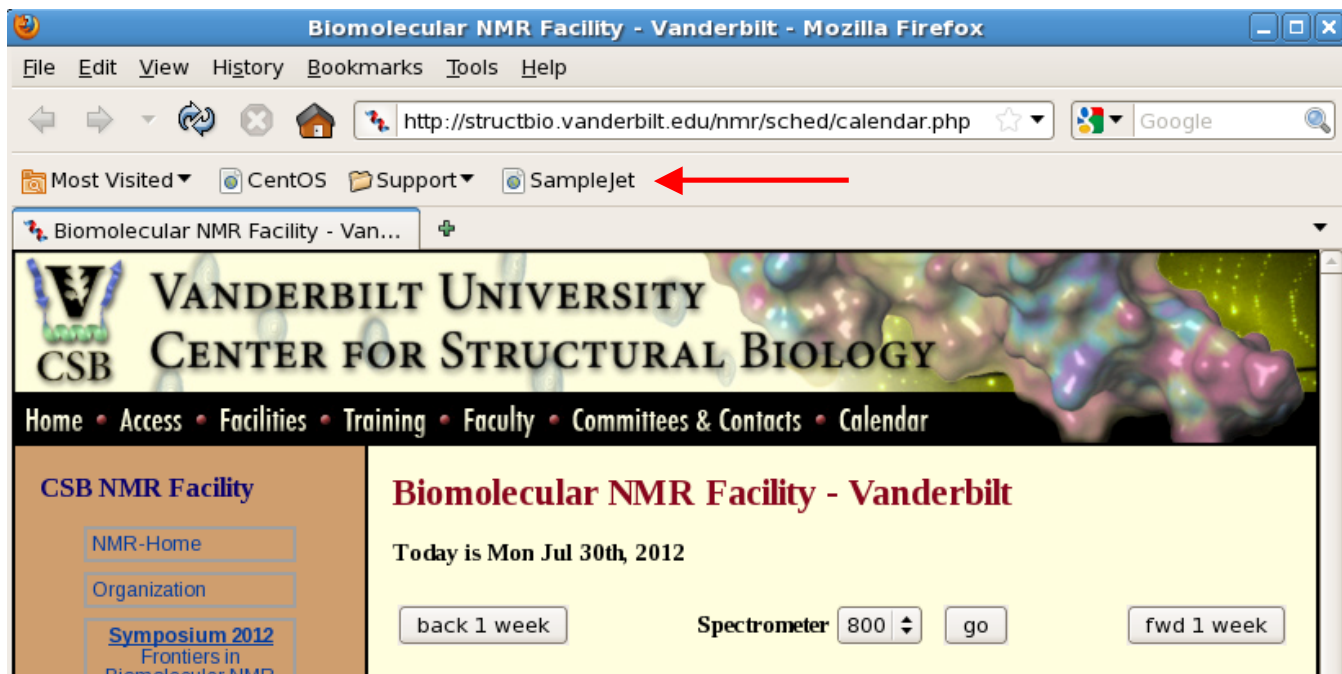
### What is the current Mode of the Instrument?

The instrument can be in one of two modes.

Manual


Shuttle (for automation)

The first step is to find out which mode the instrument is in. Open a web browser and select the SampleJet tab. If it is not present, go to the following web site: <http://149.236.99.55/>




The bottom of the page will indicate the current mode:

### Manual

	State: Idle    Operating Mode: <b>Manual</b>	Login: User
	Info: Manual Mode	

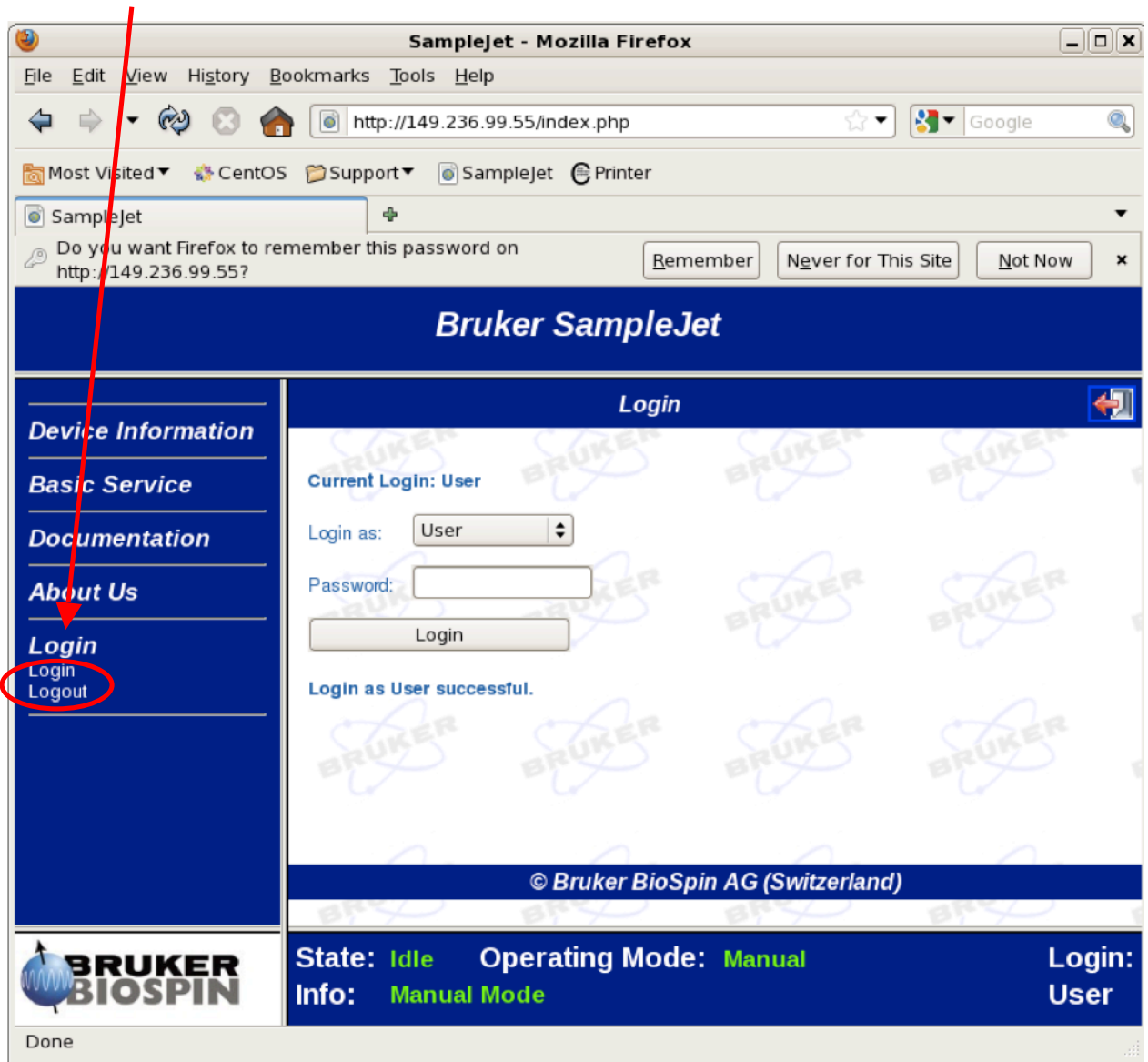
### Shuttle

	State: Idle    Operating Mode: <b>5mm-Shuttle</b>	Login: User
	Info: No sample in magnet	

## Changing the Mode

1. **Login** to Bruker SampleJet page

Click on **Login** to see the Login” and Logout” options, select Login



2. **Make sure the magnet is empty if you go from Manual to a Shuttle mode!!** (use sx ej)
3. **Make sure you select the proper sample diameter size, 5mm, 3mm, 1.7mm, 1mm!!**
4. Login as **User** with the Password “**bruker**”
5. Under **Basic Services** select **Basic Commands**

The following screen will open and give you the choice to which mode you want to change:

# Bruker SampleJet

**Device Information**

**Basic Service**  
 User Settings  
 Date & Time  
 System Commands  
 Coordinate Calibration  
 Lift Calibration  
 Vision Calibration  
 Upload Firmware  
 Download Logfiles  
 Download Images  
 Download System Data  
 Inputs & Outputs  
 Recovery from Error  
 Basic Commands

**Documentation**

**About Us**

**Login**

## Basic Commands

**Transport Sample**


	To Storage
Sample	To Magnet
101	
Eject Sample From Magnet	
Return All Samples To Storage	
All Measured Samples Removed	

**Change Operating Mode**

Current probehead: Undefined (default)

Current mode: Manual

1mm-Shuttle
1.7mm-Shuttle
3mm-Shuttle
5mm-Shuttle
Manual



**State:** Idle    **Operating Mode:** Manual


**Info:** Manual Mode

**Login:** User

Depending on your sample, you click on **Manual** or any of the **Shuttle** modes, from 1mm to 5mm Sample diameters. This will initiate the SampleJet to change to the appropriate setting.

In this case we change from a manual mode to a 5mm Shuttle:

Message 1



**State:** Busy    **Operating Mode:** Manual

**Info:** Changing to 5mm-Shuttle mode automatically

**Login:** User

Message 2, SampleJet is ready

	State: <b>Idle</b> Operating Mode: <b>5mm-Shuttle</b> Info: <b>No sample in magnet</b>	Login: User
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➤ *Move Sample into magnet automatically*

**sx 80** (sample in outer ring, position 80)

	State: <b>Busy</b> Operating Mode: <b>5mm-Shuttle</b> Info: <b>Transporting sample 80 from OpenShop to BST</b>	Login: User
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➤ *Change sample:*

**sx 81** (removes sample 80 from magnet and inserts sample 81)

	State: <b>Busy</b> Operating Mode: <b>5mm-Shuttle</b> Info: <b>Transporting sample 80 from BST to Storage</b>	Login: User
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➤ *Remove sample from magnet **without** adding a sample:*

**sx ej** (this might be used when changing to manual mode!!)

	State: <b>Idle</b> Operating Mode: <b>5mm-Shuttle</b> Info: <b>No sample in magnet</b>	Login: User
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You are now ready to use the SampleJet in automation mode.