1. Go to https://www.zacks.com/screening/stock-screener





edenbrae Visit our Virtual Display Village without leaving your room!



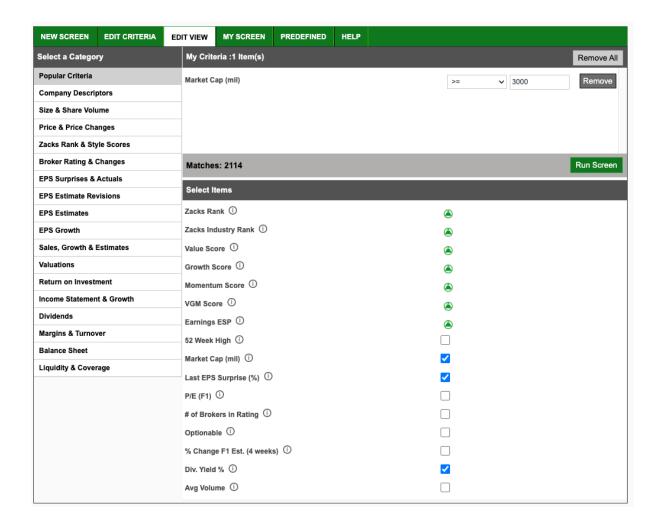
Whether you're a fundamentalist researching a company from top to bottom or a technician more interested in stock charting, you can pick stocks on a multitude of selection criteria that is most relevant to you with this stock screener. Or you can use Zacks' predefined stock screens to help you find the types of companies that meet your criteria.

NEW SCREEN	EDIT CRITERIA	EDIT VIEW	MY SCREEN	PREDEFINED	HELP							
Select a Categor	у	Select I	Select Items									
Popular Criteria	Zacks Ra	Zacks Rank ①						1	~	(A)		
Company Descript	tors	Zacks Inc	Zacks Industry Rank ①									
Size & Share Volume		Value Sc	Value Score ①						A	~	<u> </u>	
Price & Price Char	nges	Growth S	Growth Score ①					~	A	~		
Zacks Rank & Styl	e Scores		Momentum Score ①					~	A	~	(A)	
Broker Rating & C	hanges		VGM Score ①								۵	
EPS Surprises & A	Actuals							~	Α	~		
EPS Estimate Rev	isions		Earnings ESP ①								<u> </u>	
EPS Estimates		52 Week High ①						~			Add	
EPS Growth	Growth Market Cap (mil) ①						>=	~			Add	
Sales, Growth & E	stimates	Last EPS	Last EPS Surprise (%)					~			Add	
Valuations		P/E (F1)	P/E (F1) ①					~			Add	
Return on Investm	nent	# of Brok	# of Brokers in Rating ①					~			Add	
Income Statement	& Growth	Optional	Optionable ①					~		~	Add	
Dividends		% Chang	% Change F1 Est. (4 weeks) ①					~			Add	
Margins & Turnove	er	Div. Yield	Div. Yield % ①					~			Add	
Balance Sheet	lance Sheet Avg Volume ①						>=	~			Add	
Liquidity & Covera	ige										Add	

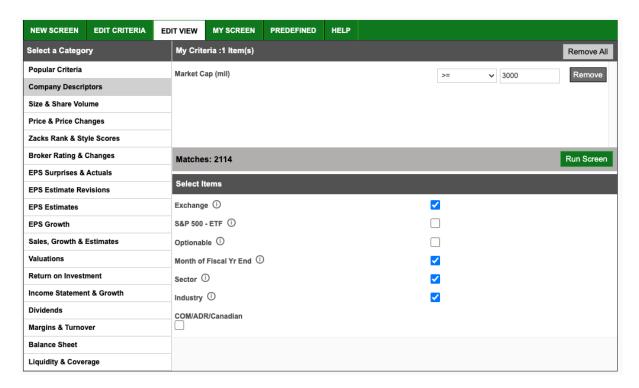
- 2. Select the size of companies in our database
- Select "Market Cap (mill) >= 3000"
- Click on Add

NEW SCREEN EDIT CRITERIA	EDIT VIEW	MY SCREEN	PREDEFINED	HELP							
Select a Category	Select I	Select Items									
Popular Criteria	Zacks Ra	Zacks Rank ①						1	~	(A)	
Company Descriptors	Zacks Inc	Zacks Industry Rank ①									
Size & Share Volume	Value Sc	Value Score ①						A	~	<u> </u>	
Price & Price Changes	Growth S	Growth Score ①					~	A	~		
Zacks Rank & Style Scores		Momentum Score ①									
Broker Rating & Changes		VGM Score ①					~	A	~	۵	
EPS Surprises & Actuals							~	Α	~		
EPS Estimate Revisions										<u> </u>	
EPS Estimates	52 Week	52 Week High ①					~			Add	
EPS Growth	Market C	Market Cap (mil) ①					~	3000		Add	
Sales, Growth & Estimates	Last EPS	Last EPS Surprise (%)					~			Add	
Valuations	P/E (F1)	P/E (F1) ①					~			Add	
Return on Investment	# of Brok	# of Brokers in Rating ①					~			Add	
Income Statement & Growth	Optional	Optionable ①					~		~	Add	
Dividends	% Change F1 Est. (4 weeks)						~			Add	
Margins & Turnover	Div. Yield	Div. Yield % (i)					~			Add	
Balance Sheet	Avg Volu	Avg Volume ①					~			Add	
Liquidity & Coverage						>=	•			Add	

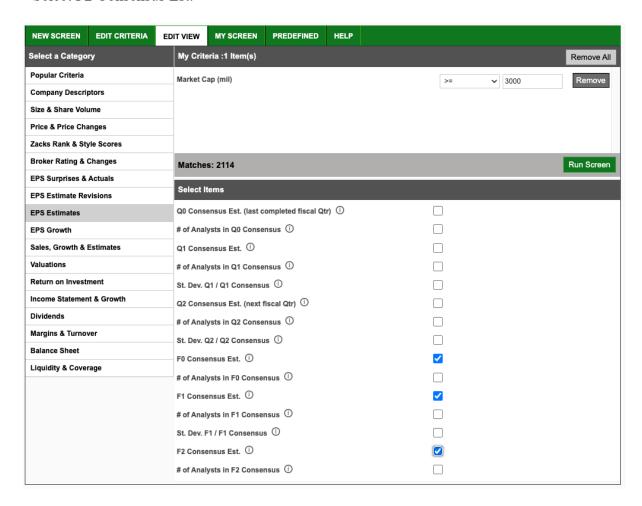
- 3. Select 'Edit View' Menu, then select 'Popular Criteria' Menu
- Select Market Cap
- Select Last EPS Surprise (%)
- Select Div. Yield %



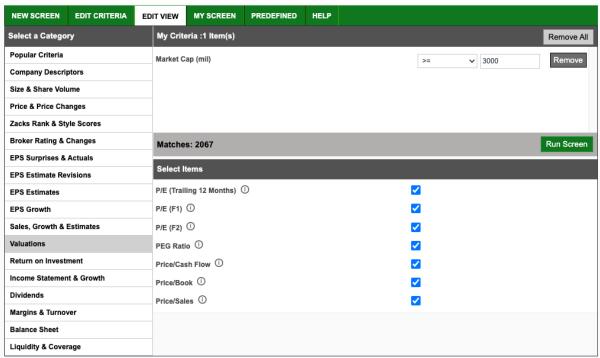
- 4. Select 'Company Descriptors' Menu
- Select Exchange
- Select Month of Fiscal Yr End
- Select Sector
- Select Industry



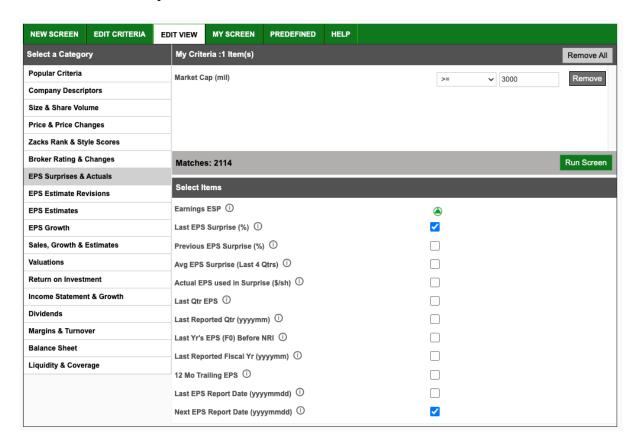
- 5. Select 'EPS Estimates' Menu
- Select F0 Consensus Est.
- Select F1 Consensus Est.
- Select F2 Consensus Est.



- 6. Select 'Valuations' Menu
- Select P/E (Trailing 12 Months)
- Select P/E (F1)
- Select P/E (F2)
- Select PEG Ratio
- Select Price/Cash Flow
- Select Price/Book
- Select Price/Sales

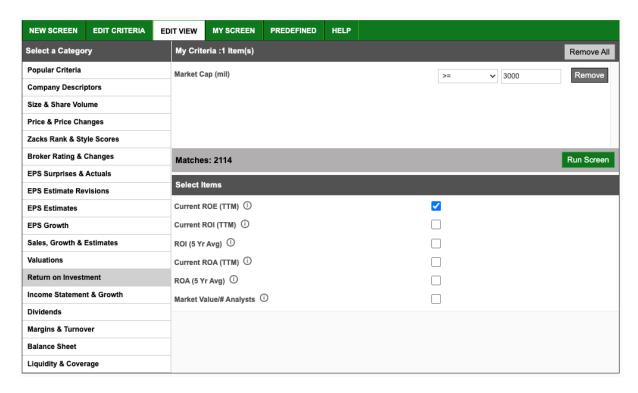


- 7. Select 'EPS Surprises & Actuals' Menu
- Select Last EPS Surprise (%)
- Select Next EPS Report Date

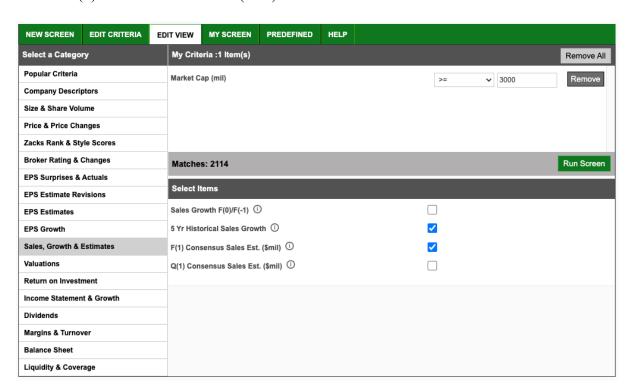


8. Select 'Return on Investment' Menu

- Select Current ROE (TTM)

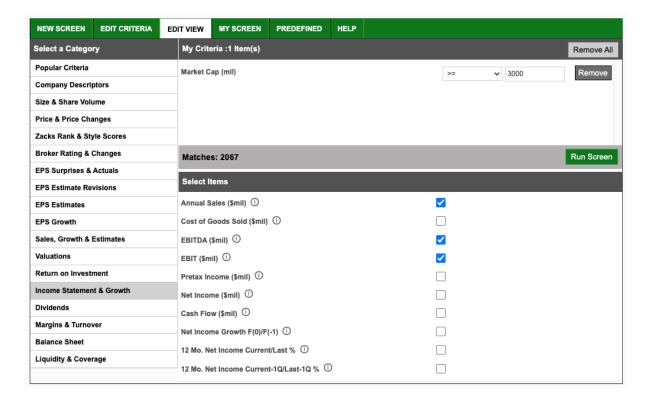


- 9. Select 'Sales, Growth & Estimates' Menu
- Select 5 Yr Historical Sales Growth
- Select F(1) Consensus Sales Est. (Mil.)

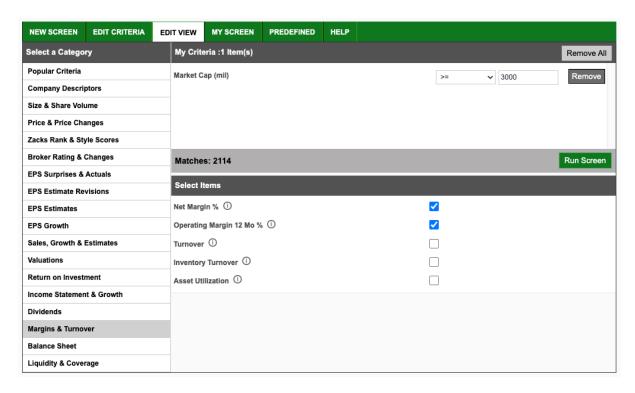


10. Select 'Income Statement & Growth' Menu

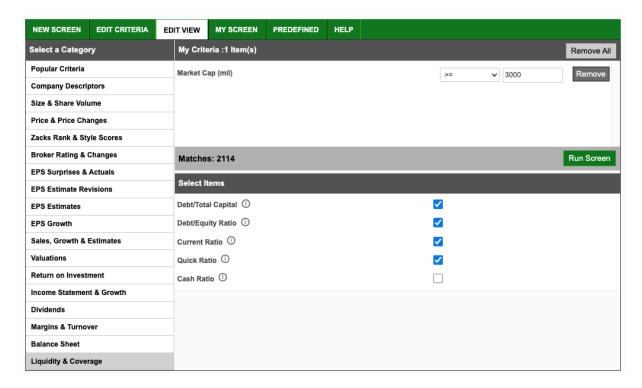
- Select Annual Sales
- Select EBITDA (\$mill)
- Select EBIT (\$mill)



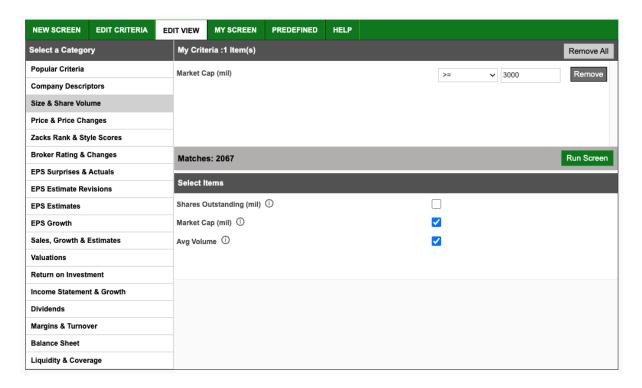
- 11. Select 'Margins & Turnover' Menu
- Select Net Margin %
- Select Operating Margin 12 Mo %



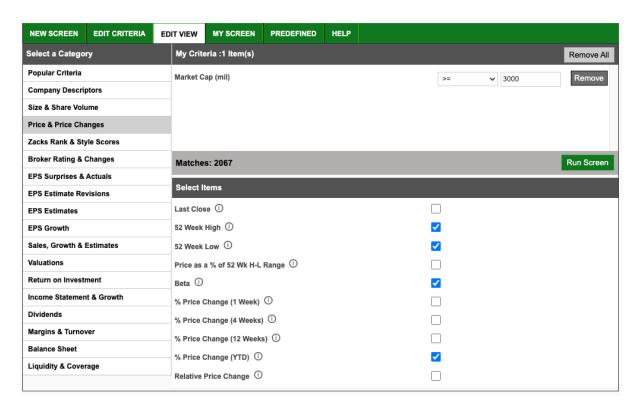
- 12. Select 'Liquidity & Coverage' Menu
- Select Debt/Total Capital
- Select Debt/Equity Ratio
- Select Current Ratio
- Select Quick Ratio



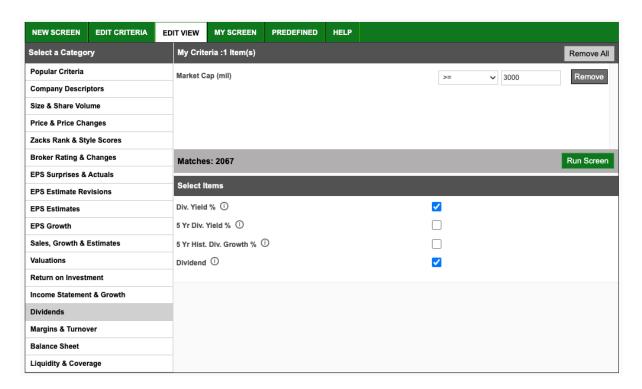
- 13. Select 'Size & Share Volume' Menu
- Select Market Cap (mill)
- Select Avg Volume



- 14. Select 'Price & Price Changes' Menu
- Select 52 Week High
- Select 52 Week Low
- Select Beta
- Select % Price Change (YTD)

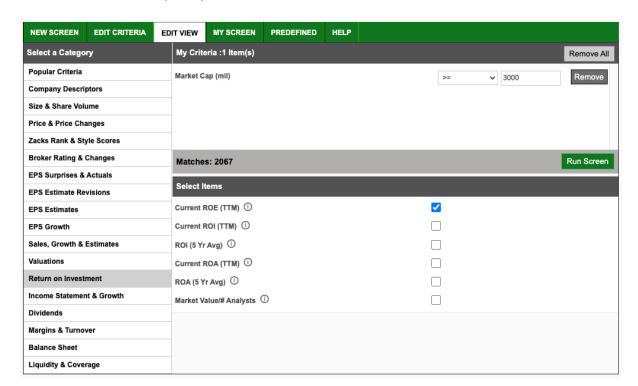


- 15. Select 'Dividends' Menu
- Select Div. Yield %
- Select Dividend

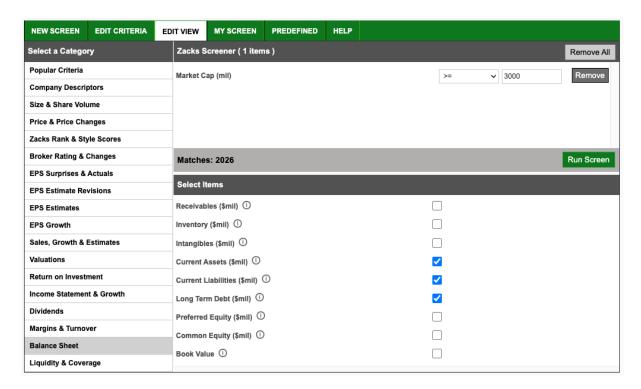


16. Select 'Return on Investment' Menu

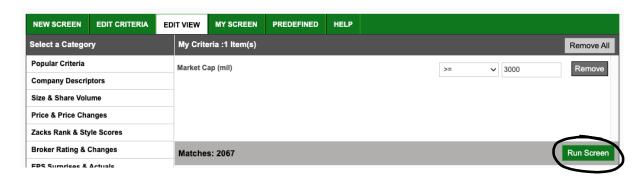
- Select Current ROE (TTM)



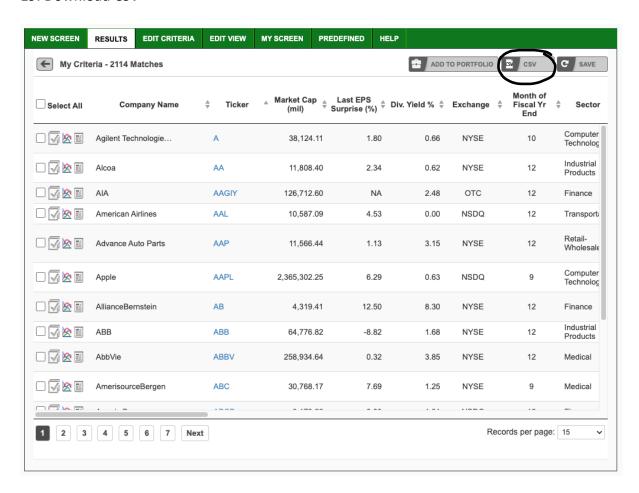
- 17. Select 'Balance Sheet' Menu
- Select Current Assets (\$mil)
- Select Current Liabilities (\$mil)
- Select Long Term Debt (\$mil)



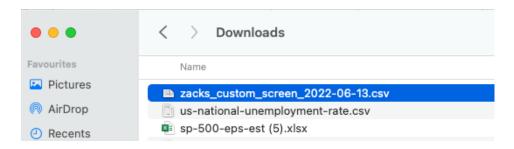
18. Click 'Run Screen'



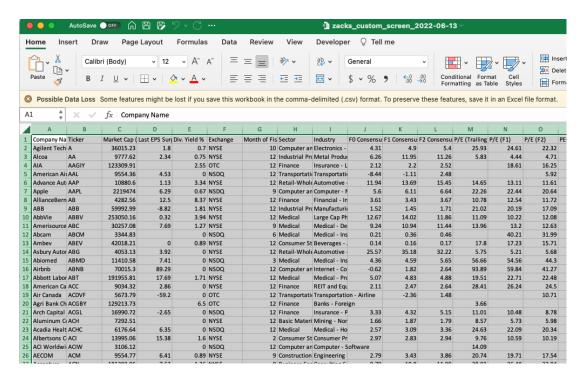
19. Download CSV



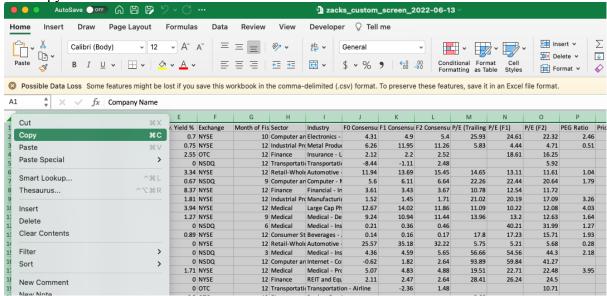
20. Open CSV file from Downloads directory



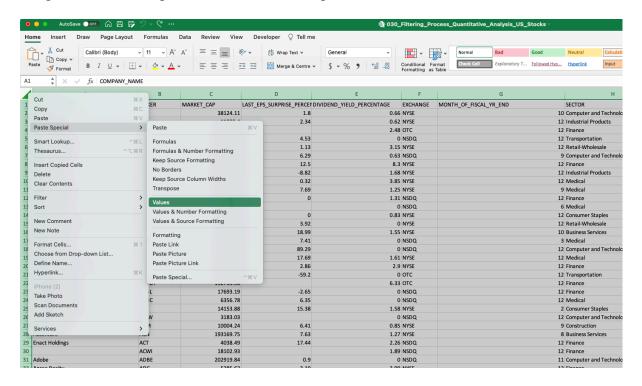
21. Select all records in the sheet



22. Copy all records in the sheet



- 23. Open file 030_Filtering_Process_Quantitative_Analysis_US_Stocks.xlsm.
- Go to 'Database US Companies' tab
- Right click on the top left, and select 'Paste Special > Values' from the menu



24. Run python script '030_Filtering_Process_US_Stocks.py' to format the data